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A Brief History of the Rural Electric and Telephone Programs



United States.
Department
of Agriculture

Rural
Electrification
Administration

Washington
D.C.
20250

April 19, 1982

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Honorable Jamie L. Whitten
Chairman, Committee on Appropriations
House of Representatives
Washington, D.C. 20515

Dear Mr. Chairman:

In connection with the hearings on the 1983 appropriation bill, you requested REA to prepare a history of the accomplishments of the Rural Electrification Administration similar to the one the Committee requires the Farmers Home Administration to prepare each year.

Pursuant to your request, we are pleased to submit a "Brief History of the Rural Electrification and Telephone Programs" for the use of the Committee.

Sincerely,

HAROLD V. HUNTER
Administrator

U.S. DEPARTMENT OF AGRICULTURE
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A BRIEF HISTORY OF THE RURAL ELECTRIFICATION
AND TELEPHONE PROGRAMS

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HISTORY

The Rural Electrification Administration (REA) is a credit agency of the U.S. Department of Agriculture which assists rural electric and telephone organizations in obtaining the financing required to provide electric and telephone service in rural areas. These essential services help improve the quality of life for people who live, work, or do business throughout rural America. Financial assistance may include (a) loans from REA, (b) guarantees of loans made by others, and (c) REA approval of security arrangements which permit the borrower to obtain financing from other lenders without a guarantee.

REA was first established by Executive Order 7037 on May 11, 1935, as part of a general program of unemployment relief. It soon became clear, however, that the task of extending central station electric service to rural areas required very specialized skills (engineering, management, etc.) that would be difficult to attract if REA operated under the constraints of the unemployment relief authorization. REA was given its own statutory authorization by the Rural Electrification Act of May 20, 1936. It became part of the U.S. Department of Agriculture on July 1, 1939.

Federal support was needed to electrify rural America because most of the established utilities served high density areas and did not extend lines to farmers and other rural residents because such investments were not considered to be feasible.

When Congress established REA, its purpose was to assure that funds would be available for rural electrification. Loans were made at interest rates that fluctuated with the cost of money to the Government. It was not until 1944 that Congress established a fixed interest rate of two percent, which, at that time, was the approximate cost of money to the Government. As time went by and interest rates rose, the subsidy associated with REA loans grew. The difficult tasks involved with the initial organizing and constructing of rural electric systems was made possible by the availability of capital from REA, innovative construction techniques and the establishment of cooperatives, not by subsidized interest rates.

The purpose of REA was expanded in 1949 when REA was authorized to loan funds for telephone service in rural areas. As in the case of electricity, it became clear that rural residents would not have access to adequate and dependable telephone service unless Federal support was provided. Both the rural telephone and rural electric programs of REA have been very successful in achieving their goals.

During the late 1960s and early 1970s, rural electric and telephone leaders came to realize that (a) their capital needs were growing at a very rapid rate and would very likely continue to grow, (b) it was no longer reasonable to expect the Government to meet all of their growing capital needs and (c) they had developed sufficient financial strength to obtain a portion of their capital needs from private sources. For these reasons, supplemental sources of financing were developed for both rural electric and telephone utilities.

The National Rural Utilities Cooperative Finance Corporation (CFC) was formed in 1969 by the rural electric cooperatives. It obtains funds from the private credit markets for its loans to electric systems. As of December 31, 1981, CFC had provided more than \$1.9 billion in long-term loans to its membership, which includes 862 systems. In addition to CFC, rural electric systems obtain loan funds from the Banks for Cooperatives and other private sources.

The Rural Telephone Bank (RTB) was established in 1971 by Public Law 92-12 which amended the Rural Electrification Act. It is the primary supplemental source of financing for the growing capital needs of rural telephone systems.

The Rural Telephone Bank is managed by a 13-member board of directors. The Administrator of REA serves as Governor of the Bank until conversion to private ownership, control, and operation. This will take place when 51 percent of the Class A stock issued to the United States and outstanding at any time after September 30, 1995, has been fully redeemed and retired. The Bank board holds at least four regularly scheduled meetings a year. Activities of the Bank are carried out by REA employees and the Office of the General Counsel of the U.S. Department of Agriculture.

In 1973, a major amendment to the Rural Electrification Act established the "Rural Electrification and Telephone Revolving Fund" (RETRF) for the purpose of making loans to REA electric and telephone borrowers. The amended Act established that loans to be made from the RETRF would be at a standard rate of five percent instead of the two percent rate at which REA loans had previously been made. The two percent rate was retained as a special rate for borrowers that met criteria specified in the Act. It was also available, at the Administrator's discretion, for hardship cases.

In addition to establishing the RETRF, and increasing the interest rate on REA loans, the 1973 amendment authorized REA to guarantee loans made by other lenders. Today these loan guarantees account for most of the loan funds obtained by electrification borrowers.

The 1973 Amendment to the Act states it is the policy of the Congress that "rural electric and telephone systems should be encouraged and assisted to develop their resources and ability to achieve the financial strength needed to enable them to satisfy their credit needs from their own financial organizations and other sources."

In 1981, Congress further amended the RE Act by eliminating the special two percent interest rate on loans to rural electric and telephone systems. Such utilities now receive loans at five percent from the RETRF, as do other borrowers. Exceptions to the five percent rate may still be made at the discretion of the REA Administrator where there is a finding of hardship.

CHRONOLOGY OF LEGISLATIVE CHANGES

RURAL ELECTRIFICATION ACT OF 1936 7 U.S.C. 901-950b

- 1935. The Rural Electrification Administration was created by Executive Order 7037 of May 11 under authority of the Emergency Relief Appropriation Act of 1935, approved April 8, 1935, (49 Stat. 115).
- 1936. Statutory provision for the agency was made in the Rural Electrification Act (RE Act) of 1936, approved May 20 (49 Stat. 1363; 7 U.S. Code, Chapter 31).
- 1938. Title IV of the Work Relief and Public Works Appropriation Act of 1938, approved June 21 ("RE Act of 1938," 52 Stat. 818) authorized further borrowing from the Reconstruction Finance Corporation and added a requirement that borrowers from REA agree to use materials and supplies produced in the United States.
- 1939. REA became a part of the Department of Agriculture under Reorganization Plan II, effective July 1.
- 1944. Title V of the Department of Agriculture Organic Act of 1944, approved September 21 (58 Stat. 739) liberalized the terms of REA loans and removed the time limitation from its lending program.
- 1944. On December 23, the Rural Electrification Act was further amended to authorize REA to refinance certain rural electrification obligations owed to the Tennessee Valley Authority (58 Stat. 925).
- 1947. The Department of Agriculture Appropriation Act, 1948, approved July 30, (61 Stat. 546) further amended the Rural Electrification Act by transferring from the Reconstruction Finance Corporation to the Secretary of the Treasury the authority to make loans to REA.
- 1948. On June 29, the Rural Electrification Act was again amended to authorize REA to refinance certain additional rural electrification obligations owed to the Tennessee Valley Authority (62 Stat. 1070).
- 1949. On October 28, the Rural Electrification Act was further amended to authorize REA to make loans for the purpose of furnishing and improving rural telephone service (63 Stat. 948).
- 1955. On June 15, the Rural Electrification Act was amended by revising the formula governing the allotment of electrification loan funds (69 Stat. 131).
- 1962. On October 23, the Rural Electrification Act was amended by broadening the definition of telephone service (76 Stat. 1140).

1971. On May 7, the Rural Electrification Act was amended to establish a Rural Telephone Account and the Rural Telephone Bank (85 Stat. 29; 7 U.S.C. 931-9506).
1972. On June 30, the Rural Electrification Act was amended to authorize the Secretary of the Treasury to purchase Telephone Bank debentures (86 Stat. 390; 7 U.S.C. 921b.)
1973. On May 11, the Rural Electrification Act was amended to establish a revolving fund for insured and guaranteed loans under Title III (87 Stat. 65; 7 U.S.C. 931-940.)
1975. On November 4, the Rural Electrification Act was amended to expressly authorize the assignment of REA guarantees to the extent provided in contract of guarantee, to clarify the incontestability of the Government guarantee, and to specifically require justification of budget estimates. (89 Stat. 677; 7 U.S.C. 936; 938; and 906.)
1976. On April 21, the "Fiscal Year Adjustment Act," amended the Rural Electrification Act to reflect necessary changes in laws because of the October-September fiscal year. (90 Stat. 375; 31 U.S.C. 701 note.)
1976. On October 20, the Rural Electrification Act was amended to correct unintended inequities in the interest rate criteria and to transfer the unobligated balance of the 1973 loan authorizations to the Rural Electrification and Telephone Revolving Fund. (90 Stat. 2701; 7 U.S.C. 931; 935.)
1977. On August 4, the "Department of Energy Organization Act," added section 16 to title 1, to require the Administrator when making or guaranteeing generation or transmission loans to consider general criteria published by the Secretary of Energy. (91 Stat. 608; 7 U.S.C. 916.)
1981. On August 13, the "Omnibus Budget Reconciliation Act of 1981," amended the Rural Electrification Act: (1) to establish a five percent interest rate, with certain exceptions, for loans from the revolving fund, and (2) to require the Federal Financing Bank to make a loan under an REA guarantee if requested by a borrower with such a guarantee. (95 Stat. 379; 7 U.S.C. 935, 936.)
1981. On December 22, the "Agriculture and Food Act of 1981," amended the Rural Electrification Act to extend for another ten years the authorization for Federal stock purchase in the Rural Telephone Bank. (95 Stat. 1347; 7 U.S.C. 946.)

Public Law 97-35
97th Congress

An Act

To provide for reconciliation pursuant to section 301 of the first concurrent resolution on the budget for the fiscal year 1982.

Aug. 13, 1981
[H.R. 3982]

SHORT TITLE

SECTION 1. This Act may be cited as the “Omnibus Budget Reconciliation Act of 1981”.

Omnibus Budget
Reconciliation
Act of 1981.

PART 4—RURAL ELECTRIFICATION ADMINISTRATION
PROGRAMS

RURAL ELECTRIFICATION ACT AMENDMENTS

SEC. 165. (a) Section 305(b) of the Rural Electrification Act of 1936 (7 U.S.C. 935(b)) is amended to read as follows:

“(b) Insured loans made under this title shall bear interest at 5 per centum per annum, except that the Administrator may make insured loans to electric or telephone borrowers at a lesser interest rate, but not less than 2 per centum per annum, if, in the Administrator’s sole discretion, the Administrator finds that the borrower—

Insured loans.
interest rates.

“(1) has experienced extreme financial hardship; or

“(2) cannot, in accordance with generally accepted management and accounting principles and without charging rates to its customers or subscribers so high as to create a substantial disparity between such rates and the rates charged for similar service in the same or nearby areas by other suppliers, provide service consistent with the objectives of this Act.”.

(b) Section 306 of the Rural Electrification Act of 1936 (7 U.S.C. 936) is amended by—

(1) inserting immediately after the second sentence the following: “With respect to guarantees issued by the Administrator under this section, on the request of the borrower of any such loan so guaranteed, the loan shall be made by the Federal Financing Bank and at a rate of interest that is not more than the rate of interest applicable to other similar loans then being made or purchased by the Bank.”; and

(2) striking out “a loan insured at the standard rate” in the fourth sentence and inserting in lieu thereof “an insured loan”.

(c) Section 307 of the Rural Electrification Act of 1936 (7 U.S.C. 937) is amended by striking out “a loan insured at the standard rate” and inserting in lieu thereof “an insured loan”.

(d) The amendments made by subsection (a) of this section shall apply to loans the applications for which are received by the Rural Electrification Administration after July 24, 1981.

7 USC 935 note

PUBLIC LAW 97-98—DEC. 22, 1981

95 STAT. 1213

Public Law 97-98
97th Congress

An Act

To provide price and income protection for farmers, assure consumers an abundance of food and fiber at reasonable prices, continue food assistance to low-income households, and for other purposes.

Dec. 22, 1981
[S. 884]

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled That this Act, with the following table of contents, may be cited as the “Agriculture and Food Act of 1981”.

Agriculture and
Food Act of 1981.
7 USC 1281 note.

RURAL TELEPHONE BANK AMENDMENT

SEC. 1607. Section 406 of the Rural Electrification Act of 1936 (7 U.S.C. 946) is amended by—

(1) inserting in the second sentence of subsection (a) “but not later than fiscal year 1991” after “thereafter”, and striking out “\$300,000,000” and inserting in lieu thereof “\$600,000,000”; and

(2) striking out in the first sentence of subsection (c) “September 30, 1985” and inserting in lieu thereof “September 30, 1995”, and striking out “and after the amount of class A and class B stock issued totals \$400,000,000,”.

PROGRAM ACCOMPLISHMENTS

Extending and Improving Service

REA's programs have been very successful in extending electric and telephone service to persons in rural areas. By 1953 more than 90 percent of all farms in the U.S. had electricity; for telephone service, the 90 percent mark was passed in 1976.

CHART C-1

PERCENT OF FARMS WITH ELECTRIC AND TELEPHONE SERVICE

U. S. TOTALS

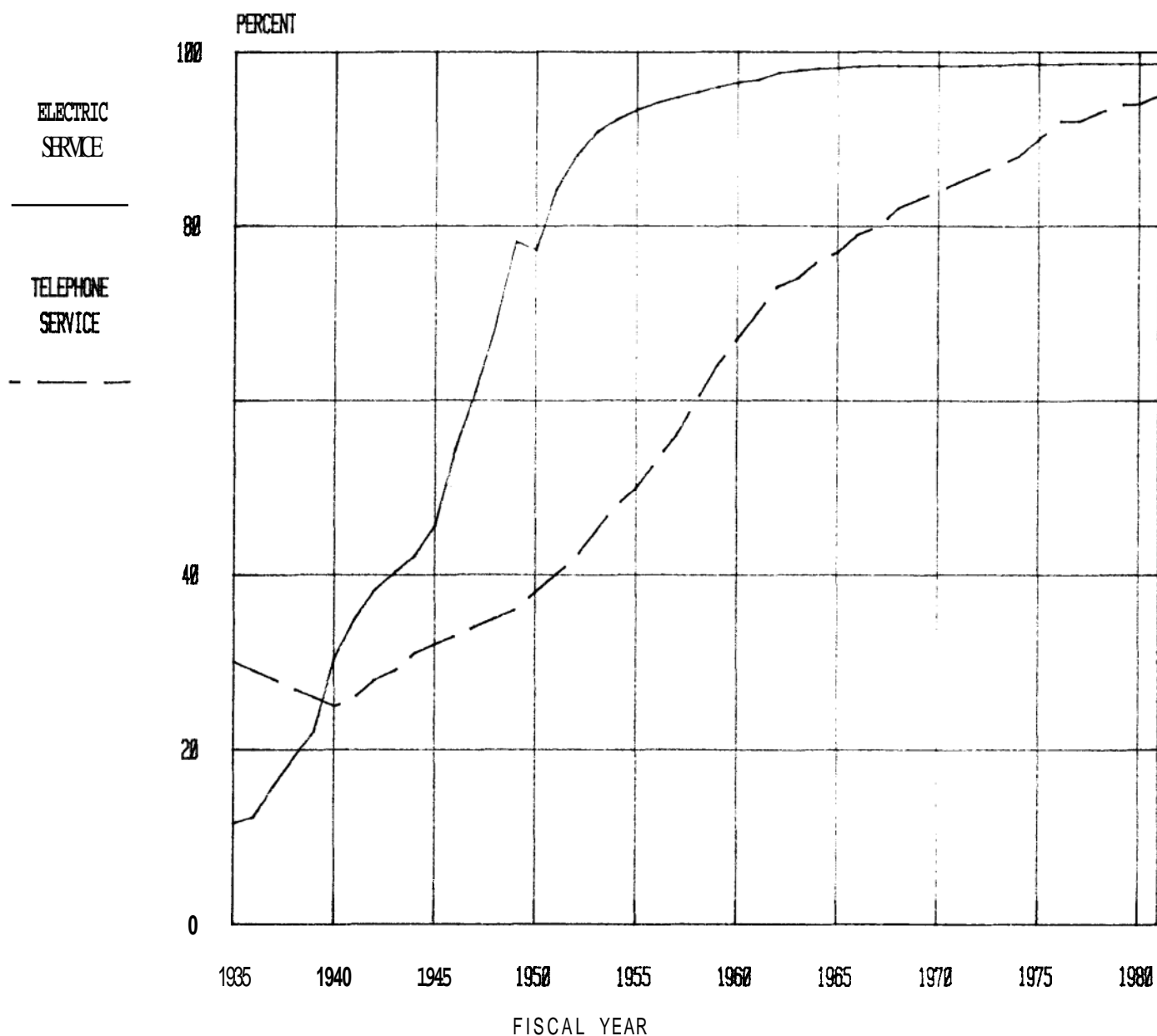


CHART C-1Percent of Farms with Electric and Telephone Service

<u>Fiscal Year</u>	<u>Electricity</u>	<u>Telephone</u>
1935	11.6	---
1936	12.3	---
1937	15.8	---
1938	19.1	---
1939	22.1	---
1940	30.4	25%
1941	34.9	---
1942	38.3	---
1943	40.3	---
1944	42.2	---
1945	45.7	32%
1946	54.3	---
1947	61.0	34%
1948	68.6	35%
1949	78.2	36%
1950	77.2	38%
1951	84.2	40%
1952	88.1	42%
1953	90.8	45%
1954	92.3	48%
1955	93.4	50%
1956	94.2	53%
1957	94.8	56%
1958	95.4	60%
1959	96.0	64%
1960	96.5	67%
1961	96.8	70%
1962	97.6	73%
1963	97.9	74%
1964	98.1	76%
1965	98.2	77%
1966	98.3	79%
1967	98.4	80%
1968	98.4	82%
1969	98.4	83%
1970	98.4	84%
1971	98.4	85%
1972	98.5	86%
1973	98.5	87%
1974	98.6	88%
1975	98.6	90%
1976	98.6	92%
1977	98.7	92%
1978	98.7	93%
1979	98.7	94%
1980	98.7	94%
1981	98.7	95%

In addition to financing the extension of electric and telephone service to rural areas, REA has provided credit to rural telephone utilities for system improvements that have dramatically upgraded the quality of telephone service in rural America.

Before the REA telephone program, rural telephone service was often antique:: and unreliable--even where it was available.

Today modern and reliable telephone service is available for people who live, work or do business in rural areas. The availability of modern communications systems has improved the quality of life of rural people and has strengthened their local economies. Improvement continues as more rural residents receive single party service.

GRADES OF SERVICE PROVIDED TO SUBSCRIBERS SERVED BY REP. TELEPHONE BORROWERS
CHART C-2

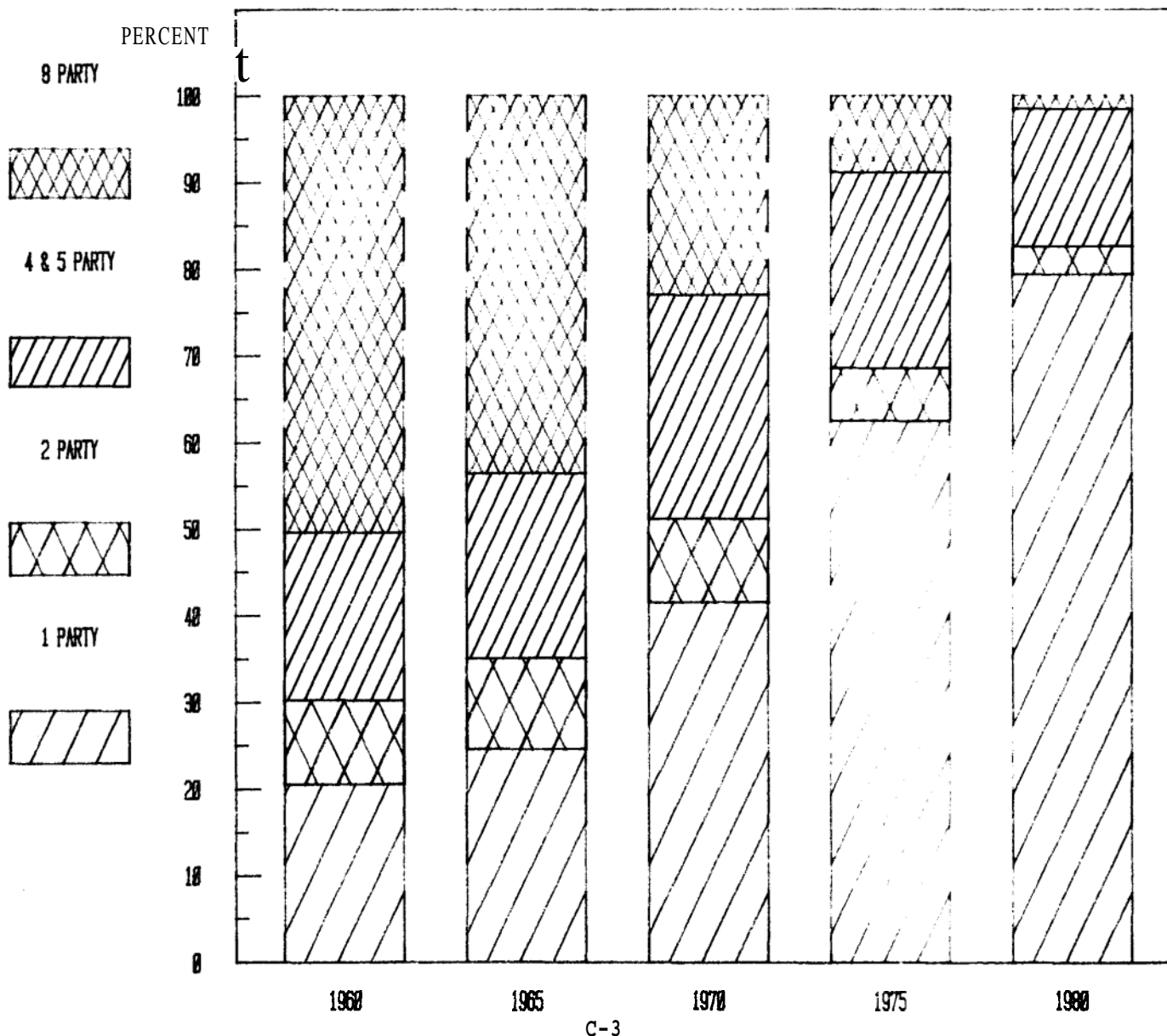


TABLE C-2

Number of Subscribers Served by REA Telephone Borrowers,
by Grade of Service

(Subscribers in thousands)

<u>Year</u>	<u>One Party</u>		<u>Two Party</u>		<u>Four and Five Party</u>		<u>Eight Party*</u>	
	<u>No.</u>	<u>Percent</u>	<u>No.</u>	<u>Percent</u>	<u>No.</u>	<u>Percent</u>	<u>No.</u>	<u>Percent</u>
1960	236.0	20.8	108.1	9.5	219.4	19.3	571.5	50.4
1965	428.7	24.8	182.0	10.5	362.7	21.0	752.9	43.7
1970	927.3	41.6	227.4	9.8	598.7	25.6	536.1	23.0
1975	1,909.2	62.7	183.3	6.0	685.2	22.5	267.6	8.8
1980	3,383.1	79.4	136.1	3.2	669.7	15.7	73.4	1.7

* Includes service stations (switchers) which represent less than 1 percent of the total number of subscribers,

Meeting the Growing Demand for Service

Rural electric and telephone systems have been able to meet an ever increasing demand for service. Each year the number of households served by REA electric and telephone borrowers has increased. In the early years this growth was mainly due to service being extended to households that had never before had electricity or telephones. More recently the growth is primarily because of the rapid population increases that have occurred in rural America--particularly in "sunbelt" and western States.

CHART C-3

NUMBER OF CONSUMERS & SUBSCRIBERS SERVED

BY REA ELECTRIC & TELEPHONE BORROWERS

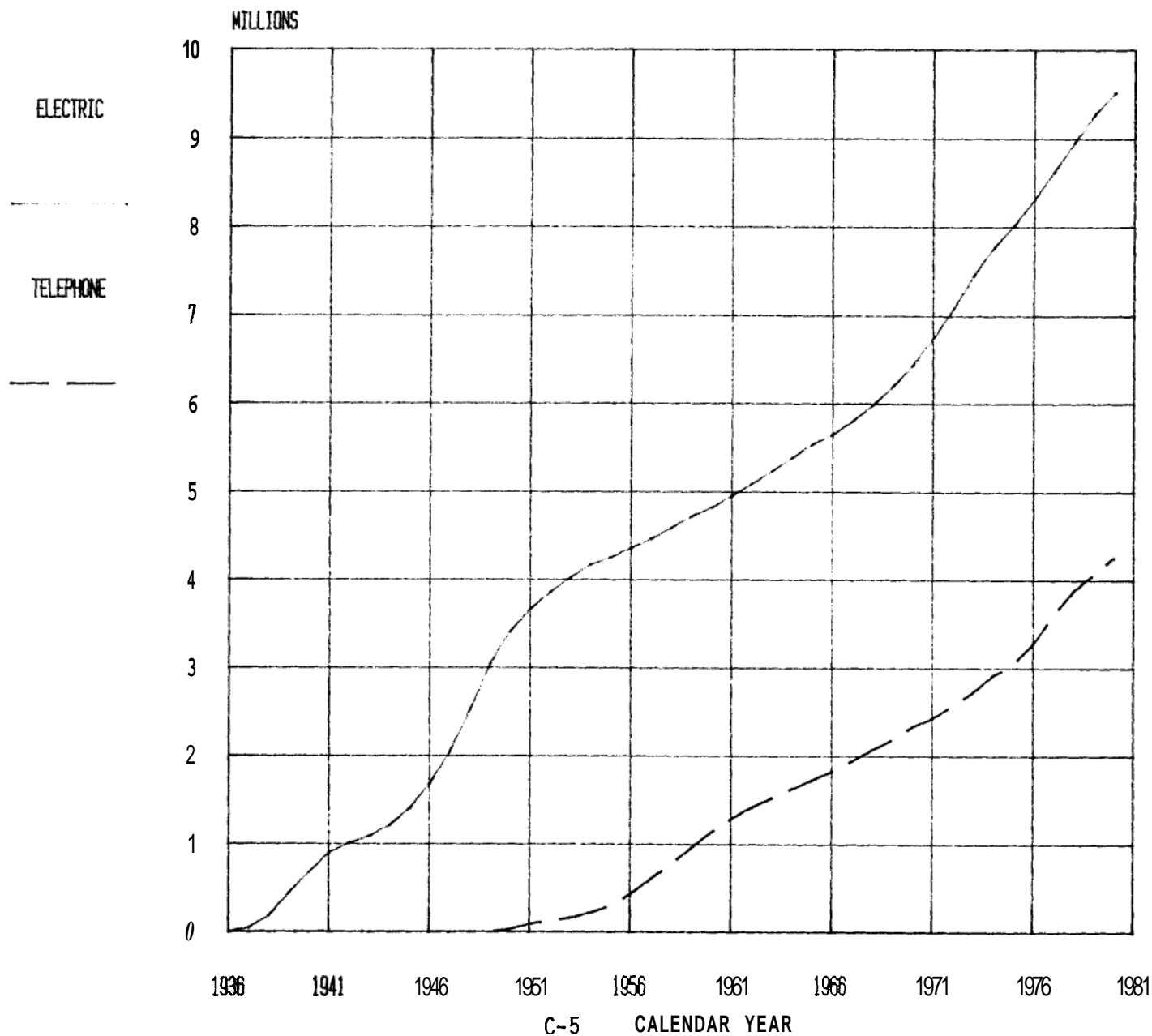


TABLE C-3

Number of Consumers and Subscribers Served by REA
Electric and Telephone Borrowers (in Thousands)

Fiscal Year	Electric Consumers	Telephone Subscribers
1935	---	---
1936	7.5	---
1937	43.9	---
1938	176.4	---
1939	435.6	---
1940	674.5	---
1941	902.3	---
1942	1,012.3	---
1943	1,087.8	---
1944	1,216.8	---
1945	1,408.9	---
1946	1,683.9	---
1947	2,046.1	---
1948	2,518.5	---
1949	3,040.4	---
1950	3,413.4	29.1
1951	3,666 .0	86.9
1952	3,858.4	131.4
1953	4,024.8	157.4
1954	4,174.4	215.8
1955	4,251.3	296.2
1956	4,361.9	432.0
1957	4,466.4	604.7
1958	4,596.3	778.5
1959	4,721 .6	958.9
1960	4,825.8	1,142 .0
1961	4,955.6	1,291.5
1962	5,095.0	1,419.9
1963	5,237.9	1,523.4
1964	5,386.1	1,626.6
1965	5,541.5	1,726.4
1966	5,652.8	1,825.9
1967	5,806 .0	1,944.3
1968	5,986.1	2,067.0
1969	6,197.0	2,184.6
1970	6,442.3	2,334.5
1971	6,747.7	2,428.9
1972	7,076.2	2,574.8
1973	7,457.1	2,725.0
1974	7,767.8	2,919.1
1975	8,017.7	3,045.3
1976	8,311.8	3,283.2
1977	8,630.8	3,599.1
1978	8,962.5	3,877.1
1979	9,275.1	4,072.7
1980	9,523.6	4,262.4

Note: The number of consumers and subscribers served is approximately equal to the number of households and business establishments served.

In the case of electricity, the strong rural demand that has historically been experienced and met by rural electric utilities can be explained in part by the fact that alternatives to electricity are not available in many nonmetropolitan areas. For this reason electricity is used for home heating and major appliances to a greater extent in nonmetro than in metro areas. In the case of new housing, electricity is being used to an increasing extent.

CHART C-4

ELECTRICITY USE FOR MAJOR APPLIANCES

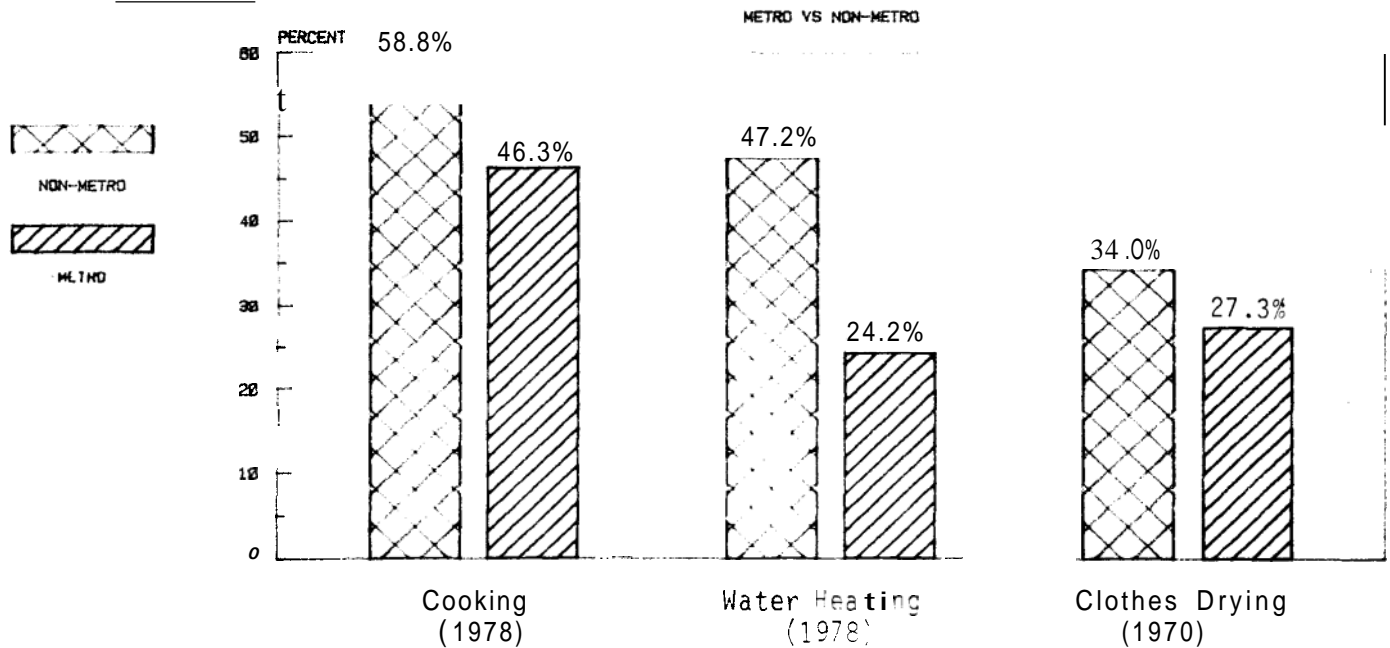
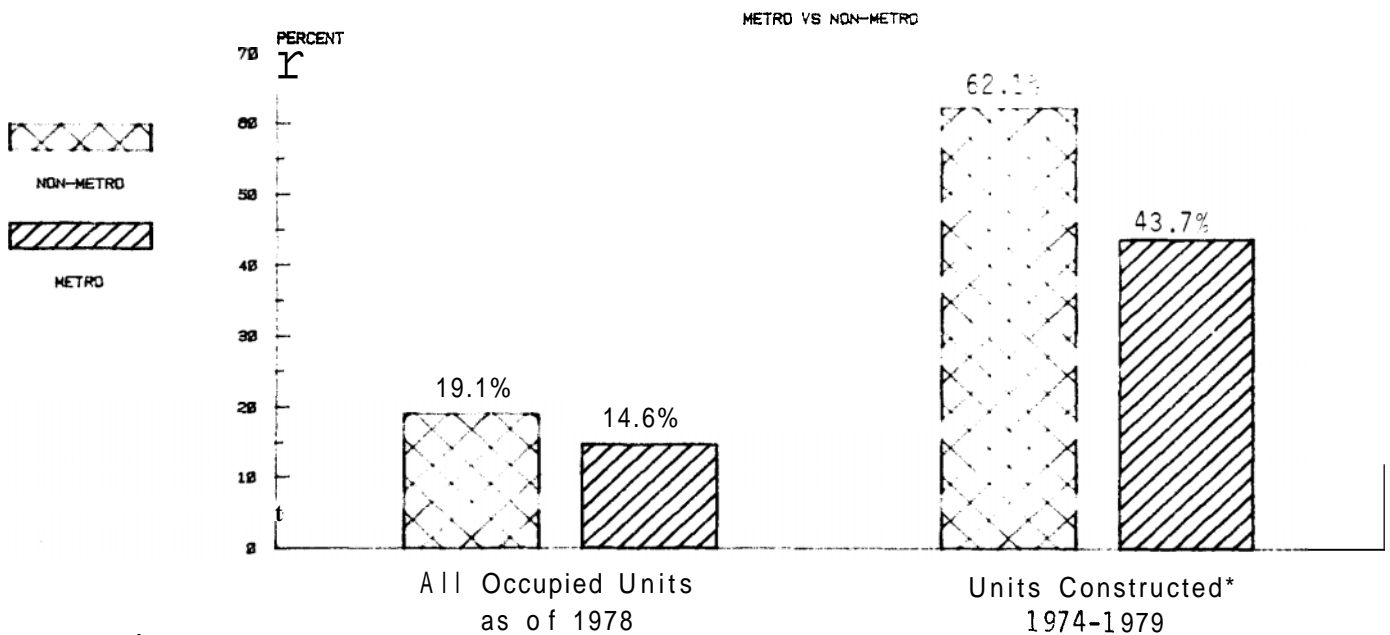


CHART C-5

ELECTRICITY USE FOR HOME HEATING



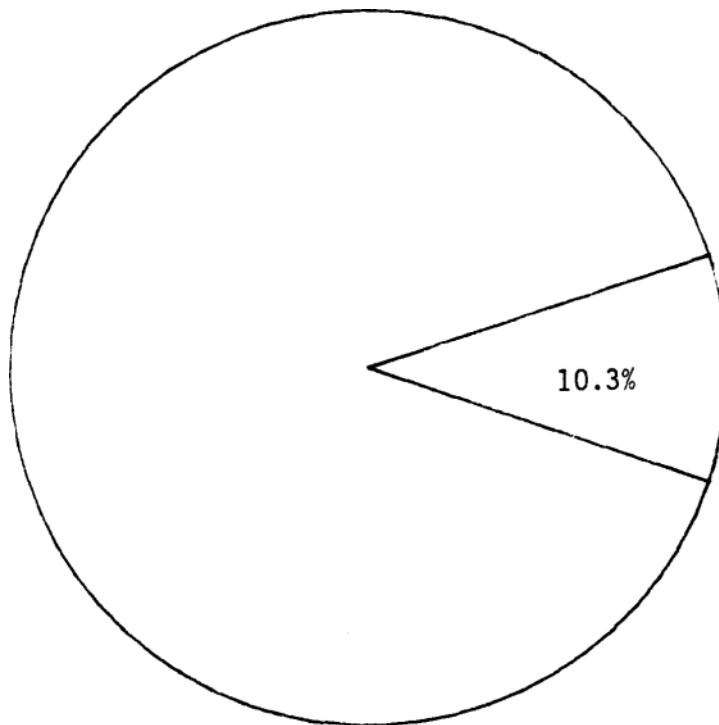
* Privately owned single family C-7

Today the rural electric and telephone utilities that receive financing from REA have developed into strong business organizations. Although not large when compared with many urban utilities, they are vital components of their respective industries.

CHART C-6

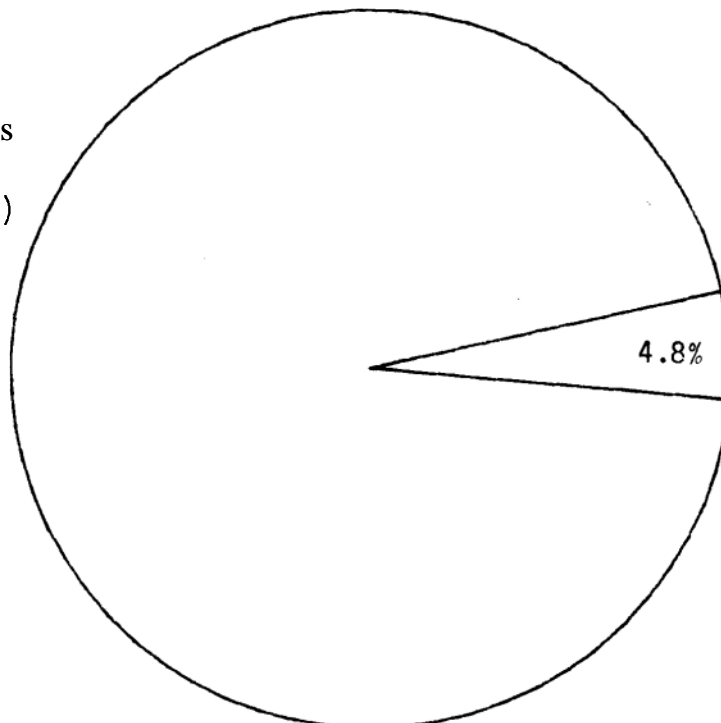
Percent of Electric Consumers and Telephone Subscribers Served
by REA Borrowers

Electric Utility
Industry
Million Consumers
Served, 1980
Total 91.7
REA 9.4



REP Electric
Borrowers

Telephone Utility
Industry
Million Subscribers
Served, 1980
Total 89.1 (est.)
REA 4.3



REA Telephone
Borrowers

As of December 31, 1981, REA borrowers had received more than \$47.8 billion from REA loans, guarantee commitments and RTB loans. Loan guarantee commitments account for most of this financing, however, a large proportion has been provided by REA loans at the two percent and five percent interest rates.

CHART D-1

CUMULATIVE REA AND RTB LOANS AND REA LOAN GUARANTEE COMMITMENTS,
AS OF DECEMBER 31, 1981

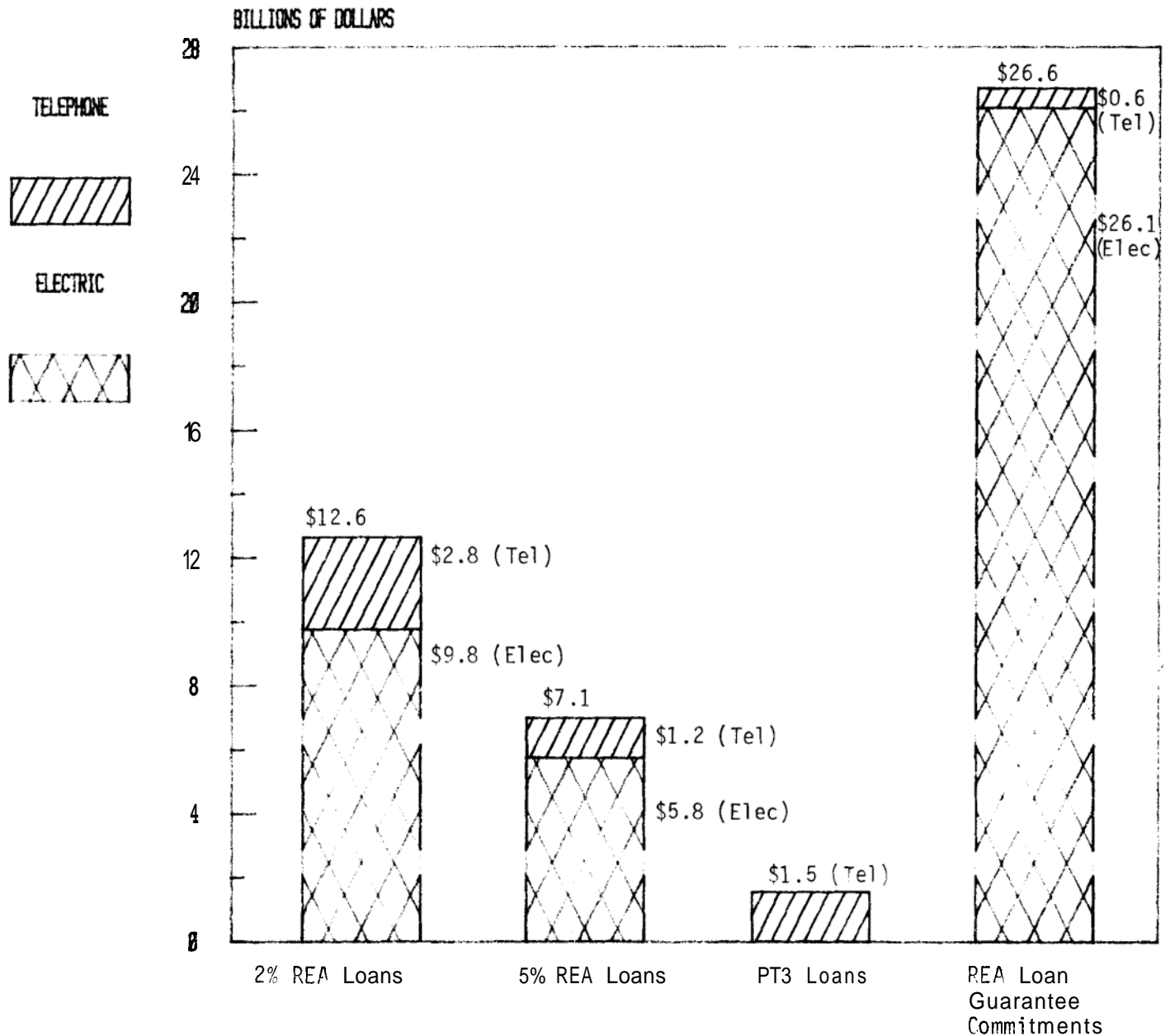


TABLE D-1

Cumulative REA Loans to Electric and Telephone Borrowers. as of December 31, 1981

	<u>Electric Loans</u>	<u>Telephone Loans</u>
UNITED STATES	\$15,634,514,821	\$4,076,323,237
Alabama	327,833,927	114,377,988
Alaska	539,147,196	59,875,000
Arizona	142,077,419	32,615,000
Arkansas	510,361,104	78,389,166
California	62,329,950	65,662,614
Colorado	719,347,746	38,381,894
Connecticut	---	---
Delaware	25,883,881	---
Florida	399,564,233	37,662,463
Georgia	512,495,712	190,782,285
Hawaii	---	---
Idaho	93,188,683	22,715,453
Illinois	382,068,447	64,621,959
Indiana	321,019,723	90,704,558
Iowa	545,549,225	117,730,417
Kansas	420,946,828	153,619,879
Kentucky	749,042,180	188,883,000
Louisiana	423,351,909	73,601,118
Maine	21,430,765	22,172,473
Maryland	115,906,500	2,061,000
Massachusetts	---	1,835,000
Michigan	263,979,812	76,644,571
Minnesota	715,885,443	186,586,240
Mississippi	401,668,504	71,754,000
Missouri	876,388,029	153,857,352
Montana	215,140,495	123,397,000
Nebraska	387,544,854	73,437,977
Nevada	53,657,563	5,235,000
New Hampshire	58,017,884	11,703,000
New Jersey	9,786,660	14,295,000
New Mexico	230,568,517	90,031,000
New York	20,979,891	38,938,899
North Carolina	426,646,211	161,550,323
North Dakota	741,752,332	117,206,114
Ohio	296,568,543	23,043,571
Oklahoma	602,170,405	154,192,395
Oregon	203,226,749	44,681,641
Pennsylvania	163,527,329	64,011,321
Rhode Island	---	---
South Carolina	408,539,545	155,845,994
South Dakota	345,693,525	102,255,016
Tennessee	265,818,033	197,334,000
Texas	1,306,166,226	355,760,294
Utah	59,915,496	20,249,000
Vermont	44,453,918	3,887,000
Virginia	293,722,756	59,199,000
Washington	164,522,598	30,121,490
West Virginia	5,542,633	44,572,000
Wisconsin	396,996,175	713,471,777
Wyoming	194,549,191	12,138,000
Puerto Rico	166,190,000	85,527,000
Guam	---	37,206,000
AT	3,350,126	---

TABLE D-2

Cumulative REP. Loan Guarantee Commitments and Rural Telephone Bank Loans,
As of December 31, 1981

	REA Loan Guarantee Commitments		Rural Telephone Bank Loans
	Electric	Telephone	
UNITED STATES	\$26,066,909,000.00	\$553,320,000.00	\$1,529,473,895.00
Alabama	270,873,000.00	11,934,000.00	50,009,400.00
Alaska	179,804,000.00	46,943,000.00	53,814,600.00
Arizona	298,779,000.00	41,700,000.00	68,535,233.00
Arkansas	693,788,000.00	25,244,000.00	47,320,560.00
California	---	10,440,000.00	34,437,900.00
Colorado	1,455,742,000.00	---	13,331,419.00
Connecticut			
Delaware			
Florida	1,114,938,000.00	48,590,000.00	31,975,650.00
Hawaii			
Idaho	130,000.00	---	3,480,750.00
Illinois	465,685,000.00	---	18,168,597.00
Indiana	1,928,484,000.00	---	14,717,850.00
Iowa	197,502,000.00	9,700,000.00	22,234,224.00
Kansas	757,147,000.00	20,440,000.00	43,019,757.00
Kentucky	2,970,111,000.00	16,000,000.00	38,881,500.00
Louisiana	1,992,381,000.00	13,925,000.00	30,291,450.00
Maine	---	5,300,000.00	16,298,100.00
Maryland	---	---	2,326,800.00
Massachusetts	---	---	519,750.00
Michigan	420,870,000.00	5,600,000.00	24,975,300.00
Minnesota	1,279,322,000.00	10,239,000.00	54,301,936.00
Mississippi	609,913,000.00	5,200,000.00	8,685,600.00
Missouri	1,626,179,000.00	11,470,000.00	44,563,050.00
Montana	5,769,000.00	---	3,733,800.00
Nebraska	---	---	19,667,550.00
Nevada	---	---	8,319,150.00
New Hampshire	75,250,000.00	---	4,772,250.00
New Jersey	---	6,500,000.00	18,234,300.00
New Mexico	341,380,000.00	---	---
New York	---	23,645,000.00	30,238,950.00
North Carolina	945,460,000.00	31,158,000.00	46,712,400.00
North Dakota	2,284,077,000.00		14,638,733.00
Ohio	45,610,000.00		3,511,200.00
Oklahoma	1,083,144,000.00	2,744,000.00	69,413,630.00
Oregon	69,827,000.00	---	35,207,550.00
Pennsylvania	406,408,000.00	43,352,000.00	148,239,000.00
Rhode Island			
South Carolina	325,699,000.00	7,885,000.00	76,095,600.00
South Dakota	12,178,000.00	---	15,444,450.00
Tennessee	---	14,358,000.00	50,151,150.00
Texas	797,881,000.00	49,900,000.00	126,566,700.00
Utah	981,136,000.00	---	2,662,800.00
Vermont	23,306,000.00	---	4,523,400.00
Virginia	---	---	14,993,318.00
Washington	---	---	13,131,300.00
West Virginia	---	5,250,000.00	3,828,300.00
Wisconsin	260,359,000.00	23,700,000.00	110,320,588.00
Wyoming	6,100,000.00	---	6,211,800.00
Puerto Rico			

TABLE D-3

REA Loans to Electric and Telephone Borrowers, Calendar Year 1981

	Electric Loans	Telephone Loans
UNITED STATES	\$777,638,000	\$236,345,000
Alabama	5,689,000	12,092,000
Alaska	43,773,000	12,774,000
Arizona	12,518,000	---
Arkansas	21,148,000	7,042,000
California	4,329,000	4,227,000
Colorado	30,507,000	---
Connecticut	---	---
Delaware	---	---
Florida	14,310,000	---
Georgia	35,210,000	420,000
Hawaii	---	---
Idaho	---	---
Illinois	21,267,000	---
Indiana	13,187,000	6,308,000
Iowa	11,507,000	5,046,000
Kansas	10,835,000	3,608,000
Kentucky	23,445,000	19,361,000
Louisiana	62,289,000	4,498,000
Maine	3,027,000	556,000
Maryland	5,383,000	---
Massachusetts	---	---
Michigan	5,956,000	5,412,000
Minnesota	17,210,000	3,512,000
Mississippi	14,297,000	3,045,000
Missouri	29,521,000	27,043,000
Montana	31,401,000	12,700,000
Nebraska	27,083,000	367,000
Nevada	5,677,000	---
New Hampshire	5,299,000	---
New Jersey	---	---
New Mexico	11,285,000	31,975,00
New York	2,514,000	992,000
North Carolina	26,085,000	7,875,000
North Dakota	34,292,000	---
Ohio	11,243,000	6,024,000
Oklahoma	36,789,000	4,503,000
Oregon	9,422,000	1,943,000
Pennsylvania	10,427,000	390,000
Rhode Island	---	---
South Carolina	27,032,000	---
South Dakota	14,118,000	3,561,000
Tennessee	7,630,000	8,900,000
Texas	90,869,000	15,688,000
Utah	8,428,000	3,699,000
Vermont	---	---
Virginia	1,476,000	2,250,000
Washington	6,004,000	---
West Virginia	496,000	---
Wisconsin	7,838,000	10,554,000
Wyoming	16,822,000	227,000
Puerto Rico	---	---
Guam	---	9,757,000

REA telephone borrowers have received a greater amount of their financing needs from REA loans than from other sources. These REA loans are supplemented by loans from the Rural Telephone Bank and REA guarantees of loans from other sources--mainly the Federal Financing Bank.

CHART D-2

SOURCES OF LONG-TERM FINANCING

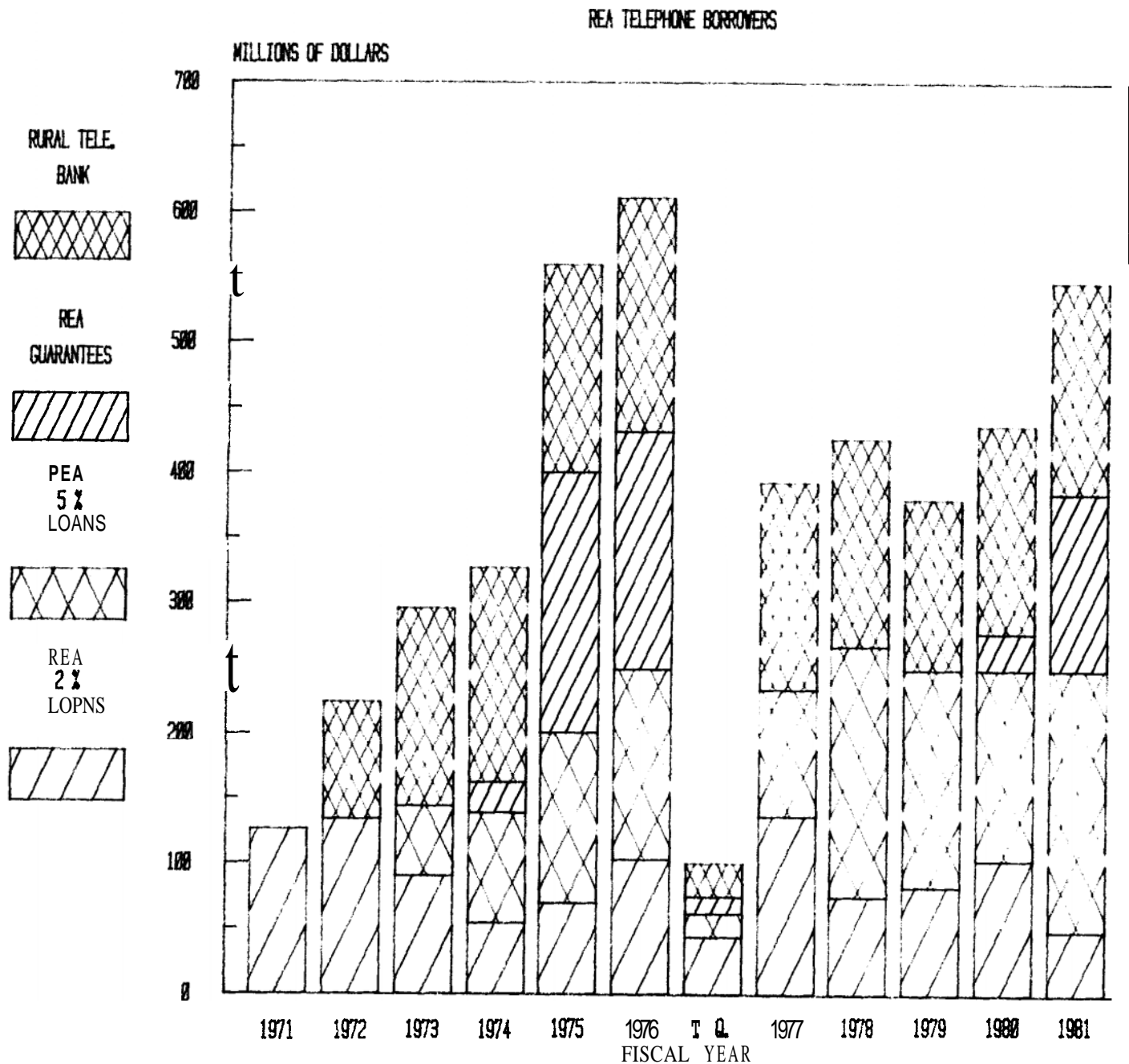


TABLE D-6

Long-Term Financing Approved
by Fiscal Year
REA Telephone Borrowers
(in millions)

Fiscal Year	REA		Non-REA		Total
	2%	5%	REA Guarantee Commitments	Rural Telephone Bank	
1971	\$125.0	---	---	---	\$125.0
1972	133.7	---	---	\$ 91.0	224.7
1973	90.0	\$ 55.0	---	150.0	295.0
1974	55.2	84.8	---	163.0	303.0
1975	70.0	129.9	\$200.0	160.2	560.1
1976	103.8	146.3	181.6	180.1	612.8
TQ	43.1	19.4	12.3	26.5	101.2
1977	136.5	96.7	---	160.3	393.6
1978	74.7	191.9	---	159.2	425.8
1979	81.6	168.3	---	130.8	380.7
1980	103.2	146.9	27.4	160.0	437.5
1981	49.7	200.1	136.4	159.9	546.1

Until the 1973 amendment to the Rural Electrification Act, virtually all financing to REA electric borrowers was supplied by direct REA loans at an interest rate of two percent. Since 1973 the amount of financing received by rural electric systems has increased greatly and most of this financing has been provided by non-REA sources, primarily the Federal Financing Bank (FFB), with an REA guarantee, at FFB's market rate of interest.

SOURCES OF LONG-TERM FINANCING

CHART D-3

REA ELECTRIC BORROWERS

MILLIONS OF DOLLARS

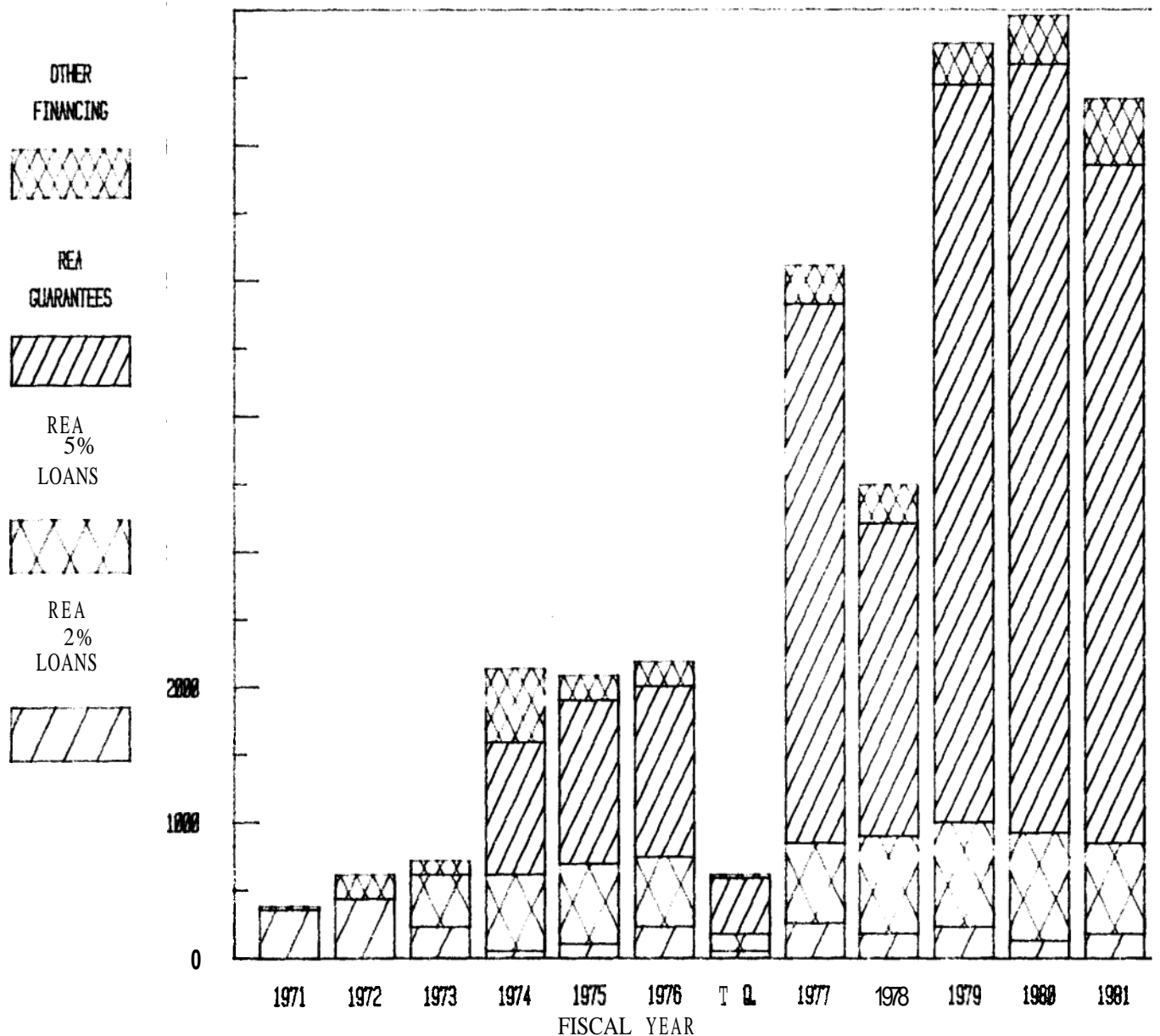


TABLE D-7

Long-Term Financing Approved
by Fiscal Year
All REA Electric Borrowers
(in millions)

Fiscal Year	REA		Non-REA		Total Long-Term Financing Approved During FY
	2%	5%	REA Guarantee Commitments	Other Financing	
1969	\$344.8	---	---	---	\$ 344.8
1970	345.0	---	---	---	345.0
1971	361.8	---	---	\$ 12.8	374.6
1972	438.3	---	---	168.4	606.7
1973	235.1	\$382.8	---	107.6	725.5
1974	65.5	553.1	\$ 974.4	533.9	2,126.9
1975	105.0	595.0	1,206.3	165.0	2,071.3
1976	222.5	527.5	1,241.5	198.4	2,189.9
TQ	47.2	140.3	403.9	31.9	623.3
1977	268.2	581.8	3,985.5	278.3	5,113.8
1978	176.2	723.8	2,309.1	276.3	3,485.4
1979	222.9	777.1	5,429.7	311.9	6,741.6
1980	142.5	782.5	5,660.1	368.3	6,953.4
1981	178.3	671.7	4,994.9	503.9	6,348.8

REA electric distribution borrowers receive most of their financing from REA at a five percent interest rate. The remainder is obtained from REA at interest rates as low as two percent (a very small amount since the 1981 amendment to the RE Act) and from non-REA sources such as the National Rural Utilities Cooperative Finance Corporation (CFC) and the Bank for Cooperatives.

CHART D-4

SOURCES OF LONG-TERM FINANCING

REA ELECTRIC DISTRIBUTION BORROWERS

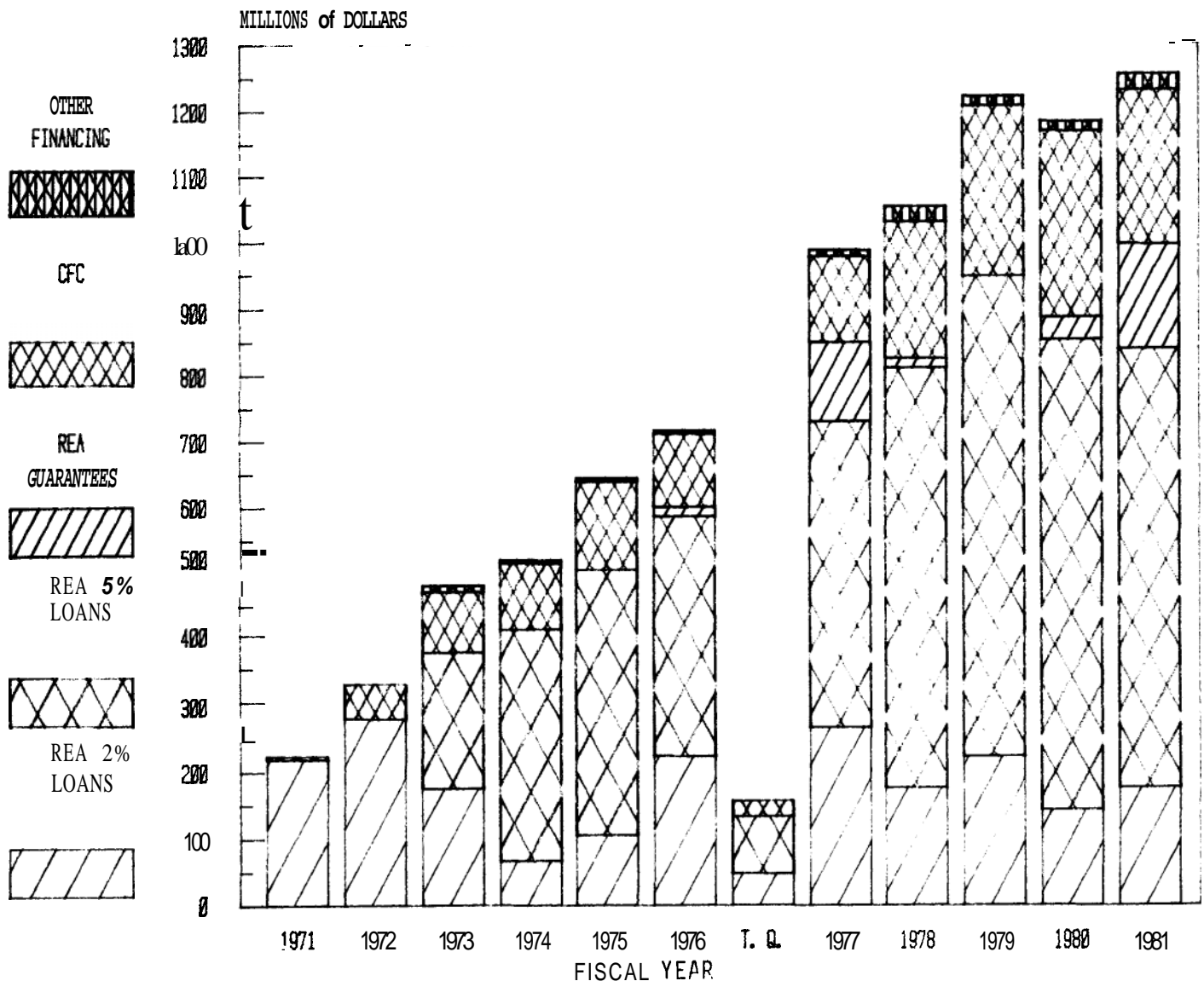


TABLE D-8

Long-Term Financing Approved
by Fiscal Year
REA Electric Distribution Borrowers
(in millions)

Fiscal Year	REA		Non-REA			Total Long-Term Financing Approved During FY
	2%	5%	REA Guarantee Commitments	CFC	Other Financing	
1969	\$162.0	---	---	---	---	\$ 162.0
1970	269.7	---	---	---	---	269.7
1971	222.0	---	---	\$ 1.8	---	223.8
1972	282.6	---	---	50.7	\$ 0.6	333.9
1973	176.8	\$206.0	---	88.3	8.9	480.0
1974	65.5	347.6	---	99.9	7.1	520.1
1975	105.0	398.5	---	134.7	6.6	644.8
1976	222.5	365.9	\$ 13.4	108.1	6.1	716.0
TQ	47.2	88.3	---	20.4	1.6	157.5
1977	268.2	462.1	117.8	129.9	6.6	984.6
1978	176.2	633.8	15.7	204.5	22.1	1,052.3
1979	222.9	727.5	---	254.6	13.3	1,218.3
1980	142.4	709.8	32.5	280.8	14.9	1,180.4
1981	178.3	660.5	156.3	234.5	23.3	1,252.9

REA electric power supply borrowers receive most of the financing approved by REA; almost all of this is provided **by** non-REA sources, mainly the Federal Financing Bank, with an REA loan guarantee. Since the 1973 amendment to the Rural Electrification Act, which gave REA the authority to guarantee loans made by other lenders, REA's program of financing for power supply projects has grown from a modest one to one of very large magnitude.

CHART D-5

SOURCES OF LONG-TERM FINANCING

REA ELECTRIC POWER SUPPLY BORROWERS

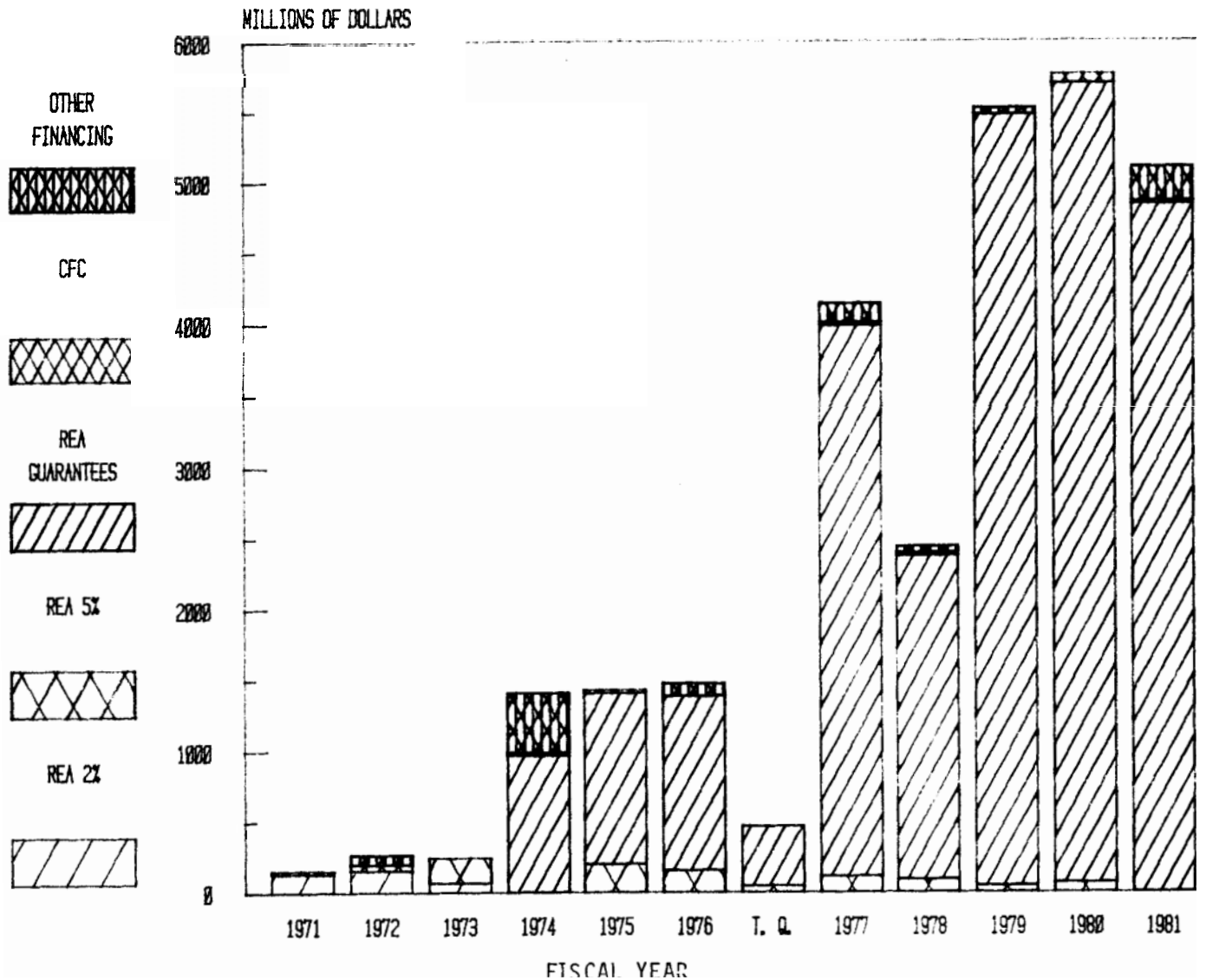


TABLE D-9

Long-Term Financing Approved
by Fiscal Year
REA Electric Power Supply Borrowers
(in millions)

Fiscal Year	REA		Non-REA			Total Long-Term Financing Approved During FY
	2%	5%	REA Guarantee Commitments	CFC	Other Financing	
1969	\$182.8	---	---	---	---	\$ 182.8
1970	75.2	---	---	---	---	75.2
1971	139.8	---	---	\$ 11.0	---	150.8
1972	155.6	---	---	42.1	\$ 75.0	272.7
1973	58.3	\$176.8	---	10.1	---	245.2
1974	---	205.5	\$ 974.4	4.9	422.0	1,606.8
1975	---	196.5	1,206.3	23.7	---	1,426.5
1976	---	161.6	1,228.1	8.1	76.1	1,473.9
TQ	---	52.0	403.9	-0-	9.9	465.8
1977	---	119.7	3,867.7	20.4	121.4	4,129.2
1978	---	90.0	2,293.4	5.5	44.2	2,433.1
1979	---	49.6	5,429.7	8.4	35.6	5,523.3
1980	---	72.7	5,627.6	61.4	11.2	5,772.9
1981	---	11.2	4,838.7	13.2	232.9	5,096.0

The number of REA electric borrowers has not changed much since about 1950. The small increases that have occurred during the last several years have been mainly because of the formation of new power supply systems that are wholly owned by REA electric distribution borrowers.

The number of REA telephone borrowers increased rapidly during the first 10-15 years of the program. The number of telephone borrowers continues to increase each year mainly because of initial loans to existing telephone utilities to extend and upgrade telephone service to rural subscribers.

CHART D-6

NUMBER OF REA BORROWERS

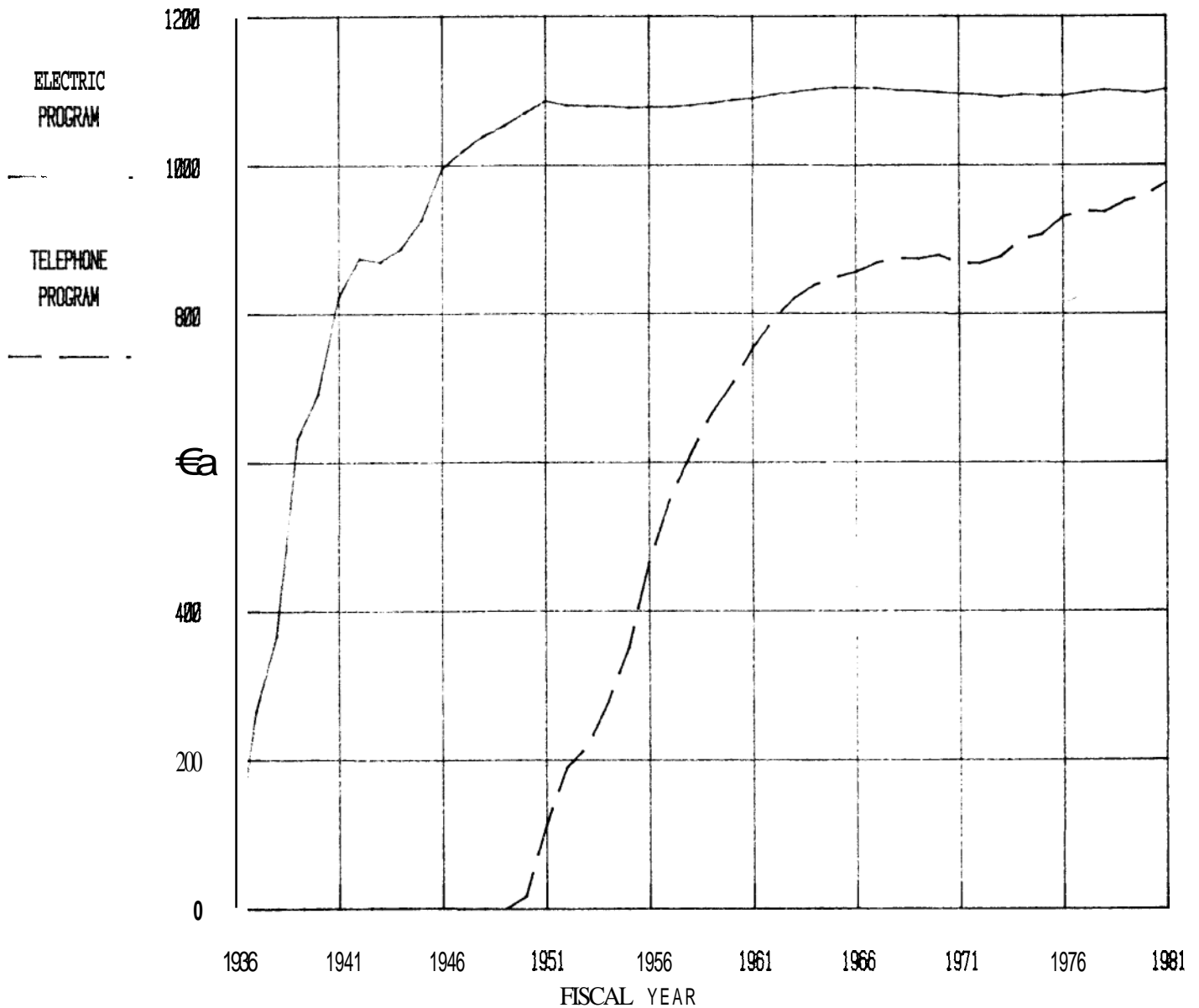


TABLE D-10

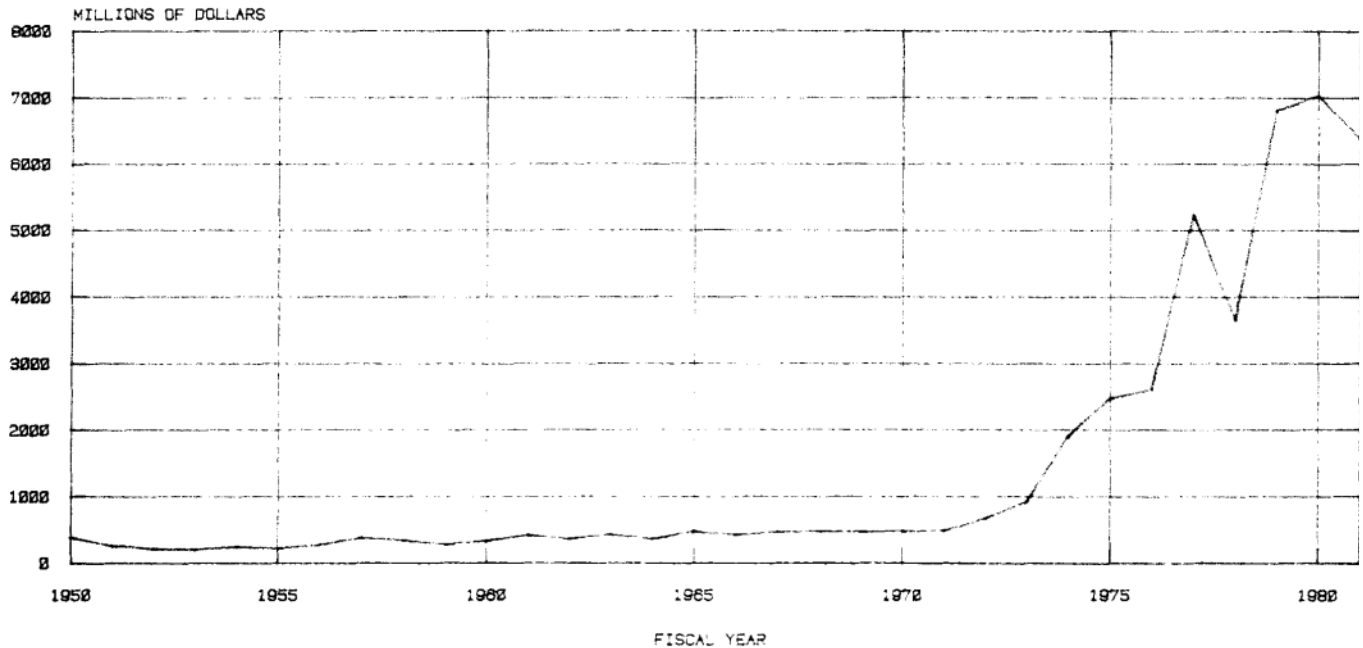
Number of REA Electric and Telephone Borrowers,
Fiscal Years 1936-1981

<u>Fiscal Year</u>	<u>Electric Borrowers</u>	<u>Telephone Borrowers</u>
1936	66	---
1937	266	---
1938	367	---
1939	632	---
1940	692	---
1941	823	---
1942	874	---
1943	869	---
1944	887	---
1945	926	---
1946	996	---
1947	1,019	---
1948	1,039	---
1949	1,053	---
1950	1,070	17
1951	1,076	113
1952	1,080	190
1953	1,079	219
1954	1,079	279
1955	1,077	351
1956	1,078	466
1957	1,078	551
1958	1,080	611
1959	1,083	665
1960	1,087	705
1961	1,089	753
1962	1,094	790
1963	1,098	820
1964	1,102	838
1965	1,104	848
1966	1,103	855
1967	1,103	867
1968	1,100	874
1969	1,099	873
1970	1,097	878
1971	1,095	867
1972	1,094	867
1973	1,091	876
1974	1,094	900
1975	1,093	906
1976	1,093	930
TQ	1,093	934
1977	1,097	938
1978	1,101	936
1979	1,099	951
1980	1,097	960
1981	1,102	976

Although the total amount of financing provided or guaranteed by REA has increased greatly, as has the complexity of many of the electric generation and telephone projects, REA's staff has effectively handled the increased work load.

CHART D-7

LOANS, GUARANTEES AND STAFF YEARS
Loans and Guarantees Approved*



*Includes REA and RTB loans and REA loan guarantee commitments.

REA STAFF-YEARS

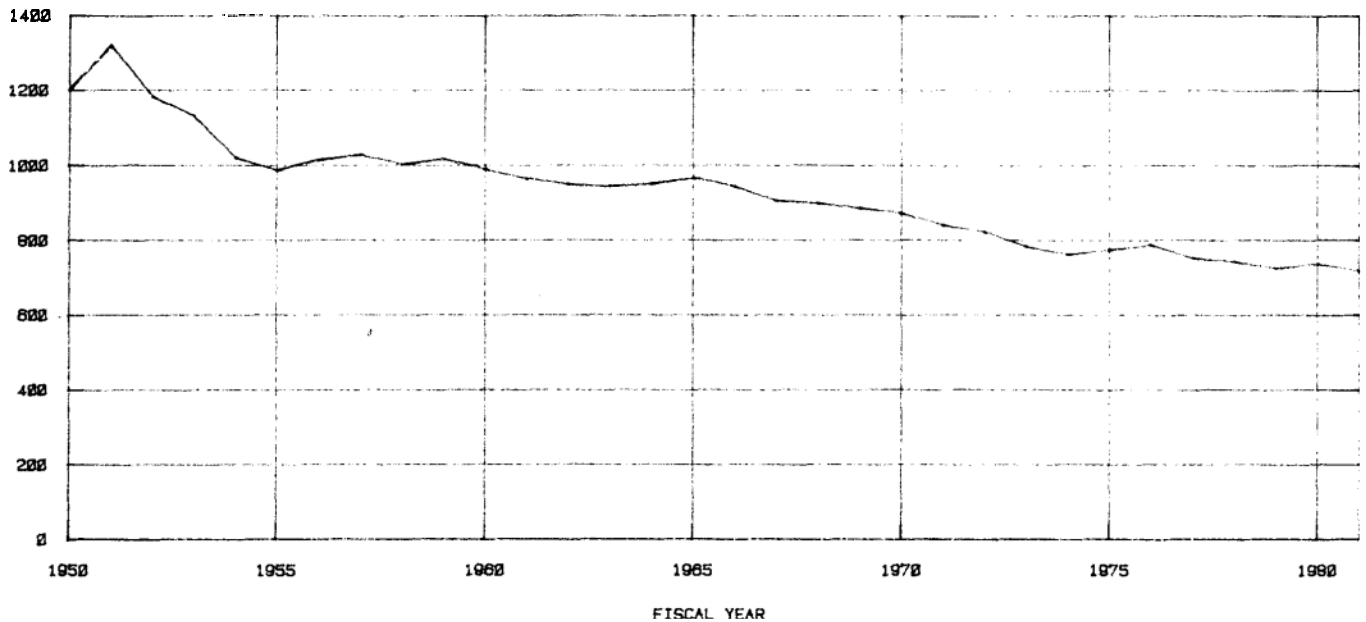


TABLE D-11

REA Staff Years vs. Loan Funds Approved,
Fiscal Years 1936-1981

<u>Fiscal Year</u>	<u>Staff Years</u>	<u>Loan Funds Approved *</u>
1936	206	\$ 17,929
1937	391	50,347
1938	460	31,660
1939	684	141,899
1940	785	44,880
1941	950	101,710
1942	1,094	91,282
1943	790	8,225
1944	646	34,002
1945	723	26,343
1946	987	29C ,914
1947	1,117	256,389
1948	929	319,110
1949	1,076	449,318
1950	1,201	379,719
1951	1,321	259,993
1952	1,183	209,017
1953	1,131	206,946
1954	1,020	241,816
1955	987	220,274
1956	1,014	270,765
1957	1,029	382,191
1958	1,002	330,875
1959	1,018	276,215
1960	989	325,108
1961	964	416,902
1962	948	352,931
1963	943	427,279
1964	950	351,412
1965	966	476,947
1966	943	412,729
1967	904	470,984
1968	898	469,928
1969	884	469,825
1970	872	469,962
1971	839	486,817
1972	821	662,873
1973	782	912,931
1974	760	1,896,075
1975	773	2,466,470
1976	785	2,603,287
TQ	168	692,585
1977	751	5,229,061
1978	741	3,634,935
1979	724	6,810,338
1980	735	7,022,604
1981	718	6,391,064

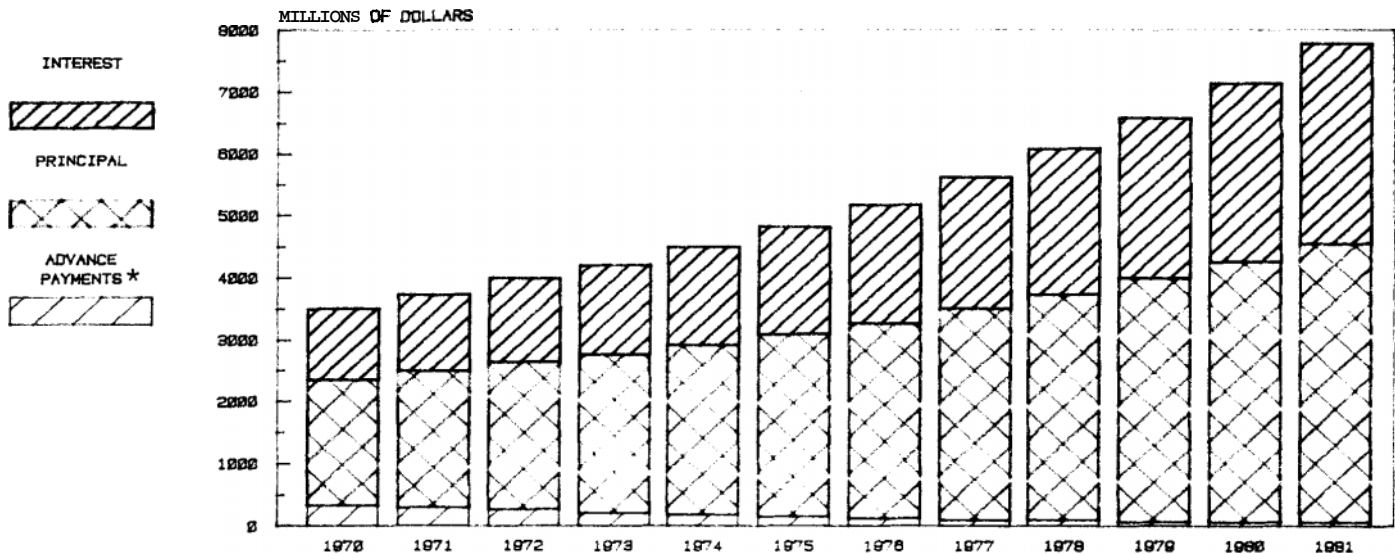
* Includes REA electric and telephone loans,
RTB loans and REA loan guarantee commitments.

REA's record of principal and interest collections has been excellent. As of December 31, 1981, REA had collected more than \$9.2 billion in principal and interest payments from its rural electric and telephone borrowers. Total losses to date have amounted to only \$44,478.

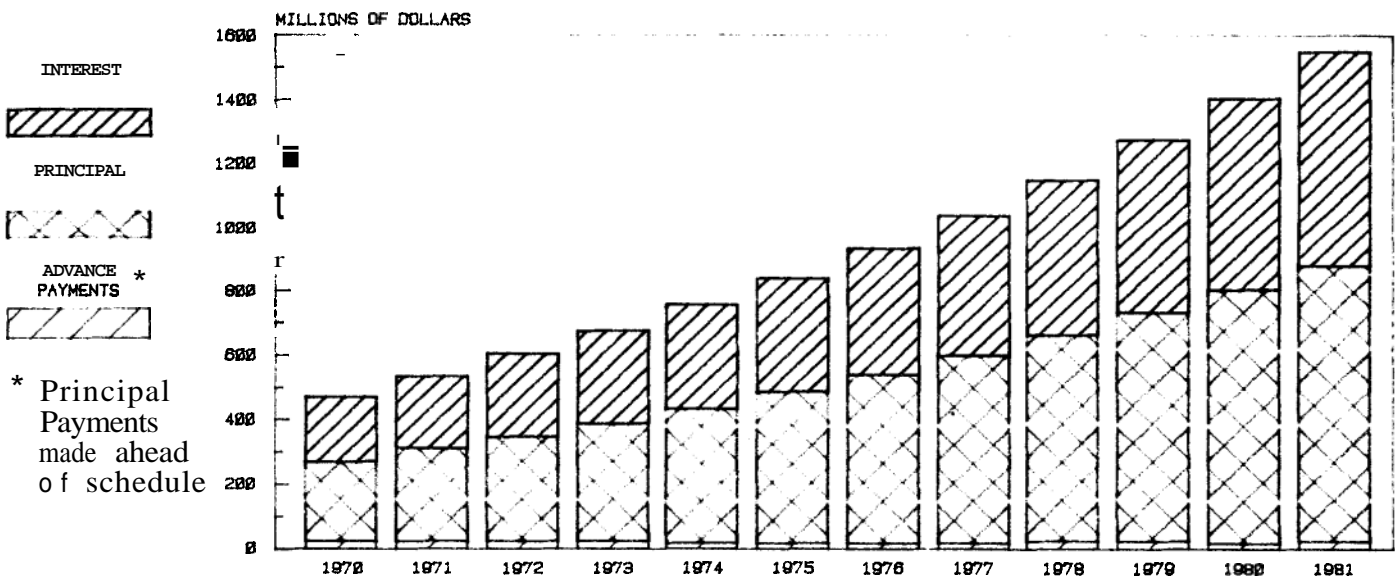
CHART D-8

CUMULATIVE PAYMENTS OF PRINCIPAL AND INTEREST ON REA LOANS

REA Electric Borrowers



REP, Telephone Borrowers



* Principal Payments made ahead of schedule

TABLE D-12

PAYMENTS OF PRINCIPAL AND INTEREST ON REA LOANS
CUMULATIVE TOTALS IN MILLIONS
(INCLUDES NOTES PAID IN FULL)

	ELECTRIC			TELEPHONE		
	Advance Payments*	Principal Due & Paid	Interest Due & Paid	Advance Payments*	Principal Due & Paid	Interest Due & Paid
1970. . .	\$325.0	\$2,014.5	\$1,158.5	\$24.6	\$244.5	\$200.7
1971. . .	301.4	2,180.6	1,253.2	25.7	282.8	227.9
1972. . .	280.2	2,354.9	1,353.6	25.3	322.4	256.7
1973. . .	213.1	2,535.3	1,460.6	22.1	366.1	287.1
1974. . .	171.0	2,727.1	1,587.8	19.9	415.0	320.0
1975. . .	138.5	2,931.3	1,738.2	19.8	466.5	355.7
1976. . .	115.3	3,147.4	1,910.0	19.6	520.4	395.1
1977. . .	103.4	3,385.0	2,109.4	20.3	579.0	439.1
1978. . .	89.8	3,639.1	2,335.0	21.7	641.1	486.9
1979. . .	70.9	3,913.4	2,590.6	22.0	709.0	539.7
1980. . .	64.2	4,200.6	2,876.9	20.7	781.0	599.1
1981. . .	54.3	4,503.3	3,205.5	23.8	857.6	667.4

* Principal payments made ahead of schedule.

Each year since the Rural Electrification and Telephone Revolving Fund (RETRF) was established in 1973, REA has advanced more loan funds to its borrowers than it has received in payments on loans.

The RETRF obtains the additional funds necessary to meet advances and interest expenses from the U.S. Treasury, directly or through the Federal Financing Bank, at rates of interest greatly in excess of the interest rates charged borrowers.

CHART D-9

RURAL ELEC. & TELE. REVOLVING FUND

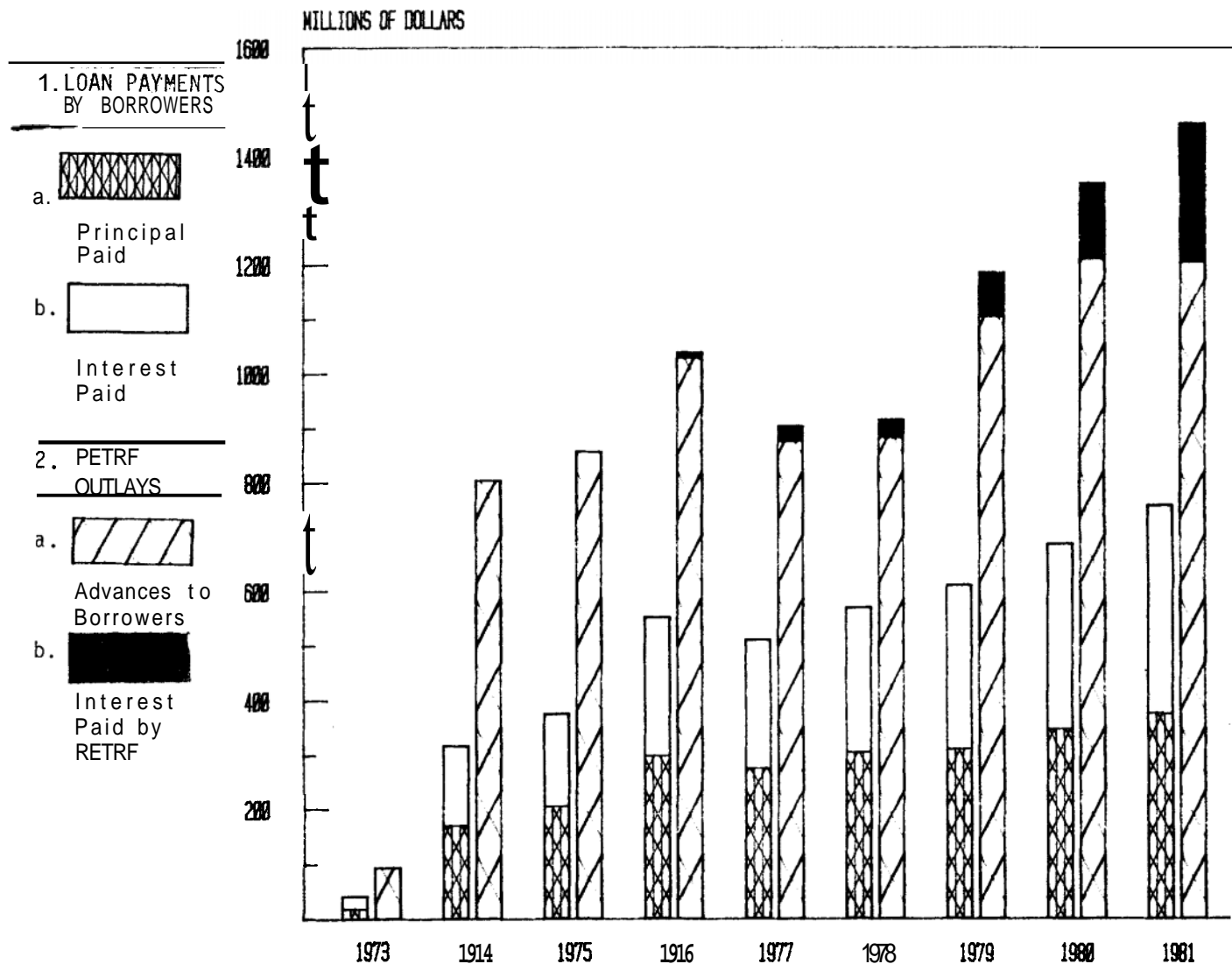


TABLE D-13

THE RURAL ELECTRIFICATION AND TELEPHONE REVOLVING FUND (RETRF)
(Dollars in Millions)

<u>FISCAL YEAR</u>	<u>LOAN PAYMENTS RECEIVED</u>		<u>RETRF OUTLAYS</u>	
	<u>PRINCIPAL</u>	<u>INTEREST</u>	<u>ADVANCE TO BORROWERS</u>	<u>INTEREST PAID</u>
1973	\$ 20.3	\$ 21.4	\$ 92.4	\$ 0.0
1974	173.1	144.2	802.4	0.0
1975	204.0	174.3	854.9	0.0
1976	299.2	252.3	1027.9	9.7
1977	275.2	234.9	874.9	29.6
1978	303.1	268.1	881.4	36.9
1979	313.8	295.7	1105.2	79.1
1980	349.1	336.9	1206.8	144.2
1981	373.1	382.7	1203.8	258.8

When Congress created the REA loan program it did not provide an interest rate subsidy. Interest rates charged borrowers fluctuated with the cost of money to the Government. It was not until 1944 that Congress established a fixed interest rate of two percent, which at that time was the approximate cost of money to the Government. As time went by and interest rates rose, the subsidy associated with REA loans grew. During recent years there has been a significant widening of the gap between the cost of money to the Government and the interest rate charged borrowers on REA loans.

CHART D-10 INTEREST RATE ON REA LOANS vs. COST OF MONEY TO THE GOVERNMENT

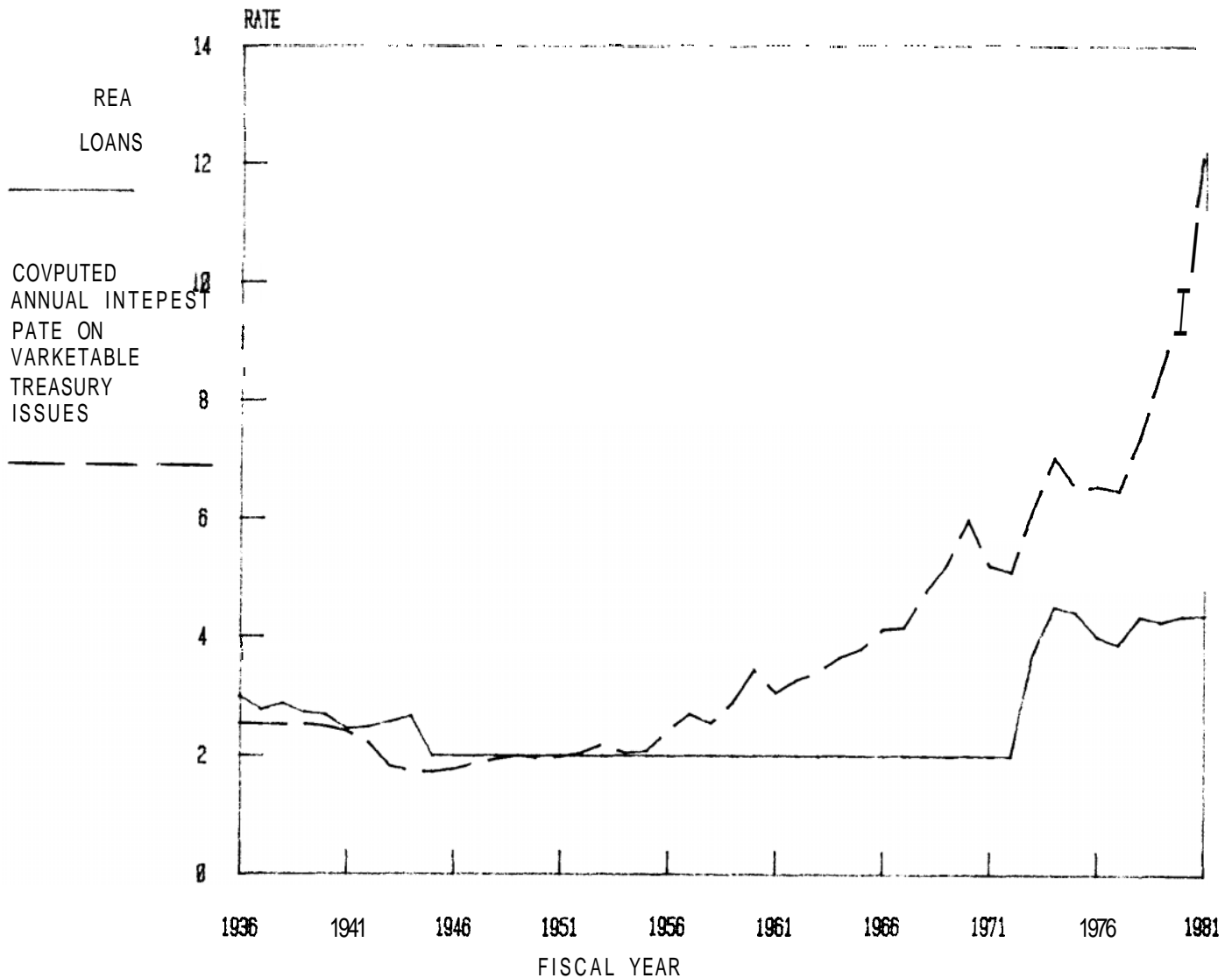


TABLE D-14

Interest Rate on REA Loans vs. Cost of Money to the Government

<u>Fiscal Year</u>	<u>Interest Rate Paid by Borrowers on REA Loans*</u>	<u>Computed Annual Interest Rate on Marketable Treasury Issues**</u>
1936	3.00	2.530
1937	2.77	2.525
1938	2.88	2.521
1939	2.73	2.525
1940	2.69	2.492
1941	2.46	2.413
1942	2.48	2.225
1943	2.57	1.822
1944	2.67	1.725
1945	2.00	1.718
1946	2.00	1.773
1947	2.00	1.871
1948	2.00	1.942
1949	2.00	2.001
1950	2.00	1.958
1951	2.00	1.981
1952	2.00	2.051
1953	2.00	2.207
1954	2.00	2.043
1955	2.00	2.079
1956	2.00	2.427
1957	2.00	2.707
1958	2.00	2.546
1959	2.00	2.891
1960	2.00	3.449
1961	2.00	3.063
1962	2.00	3.285
1963	2.00	3.425
1964	2.00	3.659
1965	2.00	3.800
1966	2.00	4.134
1967	2.00	4.165
1968	2.00	4.757
1969	2.00	5.232
1970	2.00	5.986
1971	2.00	5.210
1972	2.00	5.099
1973	3.72	6.129
1974	4.52	7.030
1975	4.42	6.533
1976	4.02	6.559
1977	3.88	6.481
1978	4.35	7.388
1979	4.27	8.592
1980	4.37	9.608
1981	4.38	12.435

* Weighted average interest rate on REA loans approved during the fiscal year.

** Source: Treasury Bulletin, U.S. Department of the Treasury.

BORROWER STATISTICS

Rural electric systems have historically had more rapid rates of increase in electric demand than the total electric utility industry. However, since 1973 growth in electric usage has declined for both REA borrowers and the total industry. Preliminary 1981 statistics show that the amount of electricity used by rural electric consumers grew by the lowest rate in the history of the program. Reduced load growth translates into reduced demand for loan funds to build new generating plants. This means savings for rural electric consumers.

CHART E-1

ANNUAL PERCENTAGE CHANGE IN ELECTRICITY USAGE

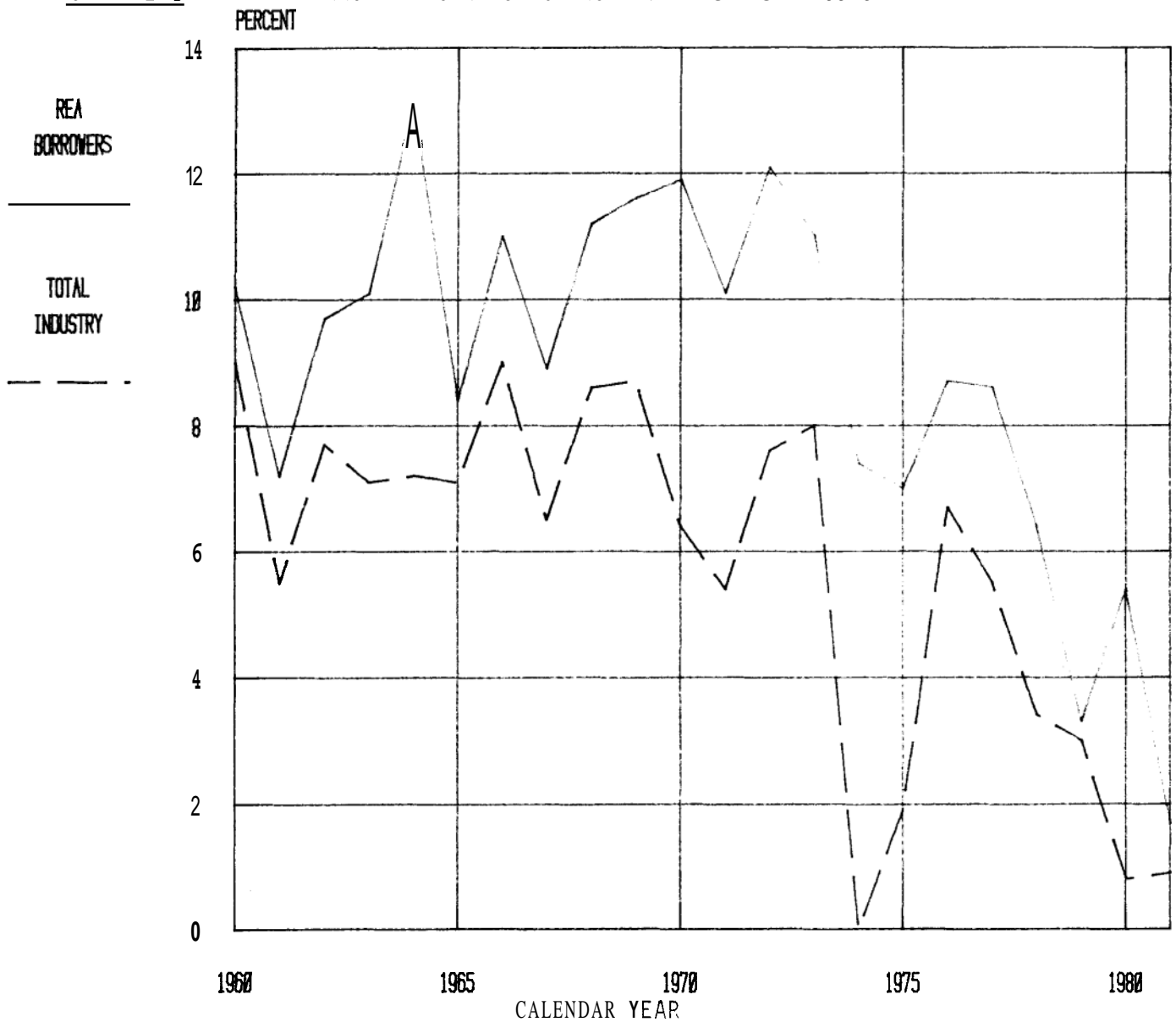


TABLE E-1Growth Trends in Electricity Usage

Year	Annual Percent Change in kWh Sales to Ultimate Consumers	
	REA Borrowers	Total Electric Utility Industry
1960	10.2%	9.0%
1961	7.2	5.5
1962	9.7	7.7
1963	10.1	7.1
1964	13.1	7.2
1965	8.4	7.1
1966	11.0	9.0
1967	8.9	6.5
1968	11.2	8.6
1969	11.6	8.7
1970	11.9	6.4
1971	10.1	5.4
1972	12.1	7.6
1973	11.0	8.0
1974	7.4	0.0
1975	7.0	1.9
1976	8.7	6.7
1977	8.6	5.5
1978	6.4	3.4
1979	3.3	3.0
1980	5.4	0.8
1981*	1.7	0.9

* Preliminary

Sources: REA Bulletin 1-1; Edison Electric Institute Statistical Yearbook.

Consumers served by rural electric systems have been charged increasingly higher prices for electricity since the early 1970s. These price increases came after a long period of steadily declining prices.

However, it is interesting to note that when inflation is adjusted for, there has been very little real increase in electricity prices to rural electric consumers--electricity remains a very good buy. Rural electric consumers are paying far less for electricity today in constant dollars than they were in the early days of the rural electric program.

AVERAGE RESIDENTIAL PRICE PER KWH

CHART E-2

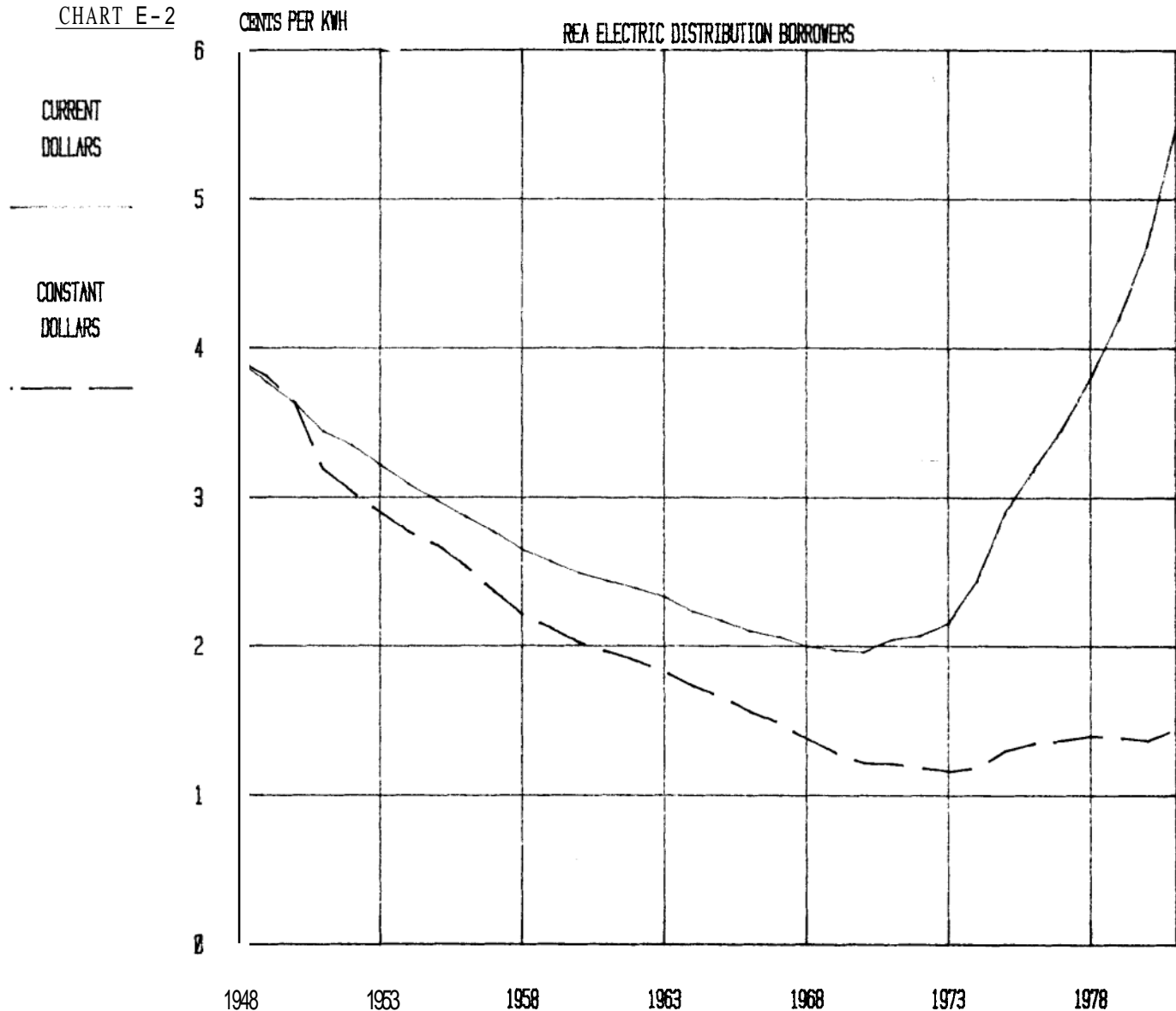


TABLE E-2

Average Residential Price Per kWh Charged by REA Electric Borrowers

Year	Current ^{1/}	Constant ^{2/}
1948	3.92¢	3.92¢
1949	3.77	3.81
1950	3.63	3.63
1951	3.44	3.19
1952	3.35	3.04
1953	3.22	2.90
1954	3.09	2.77
1955	2.98	2.68
1956	2.87	2.54
1957	2.77	2.37
1958	2.65	2.21
1959	2.57	2.12
1960	2.49	2.02
1961	2.44	1.96
1962	2.39	1.90
1963	2.33	1.83
1964	2.23	1.73
1965	2.17	1.66
1966	2.10	1.56
1967	2.06	1.49
1968	2.00	1.38
1969	1.97	1.29
1970	1.96	1.22
1971	2.04	1.21
1972	2.07	1.19
1973	2.15	1.16
1974	2.44	1.19
1975	2.90	1.30
1976	3.19	1.35
1977	3.46	1.37
1978	3.80	1.40
1979	4.20	1.39
1980	4.69	1.37
1981*	5.48	1.45

* Preliminary.

^{1/} Current \$ = dollars of the year.

^{2/} Constant \$ = dollars adjusted for inflation.
The Consumer Price Index was used to convert current dollars to constant dollars.

Electric rates charged rural electric consumers have increased mainly because of sharp escalations in the cost of power. In most cases, increases in the costs of distributing power have been more moderate. The cost of power has risen mainly because of: (a) increasing fuel costs and (b) expensive new generating units that are coming on line.

CHART E-3

AVERAGE POWER AND OTHER COSTS PER kWh SOLD

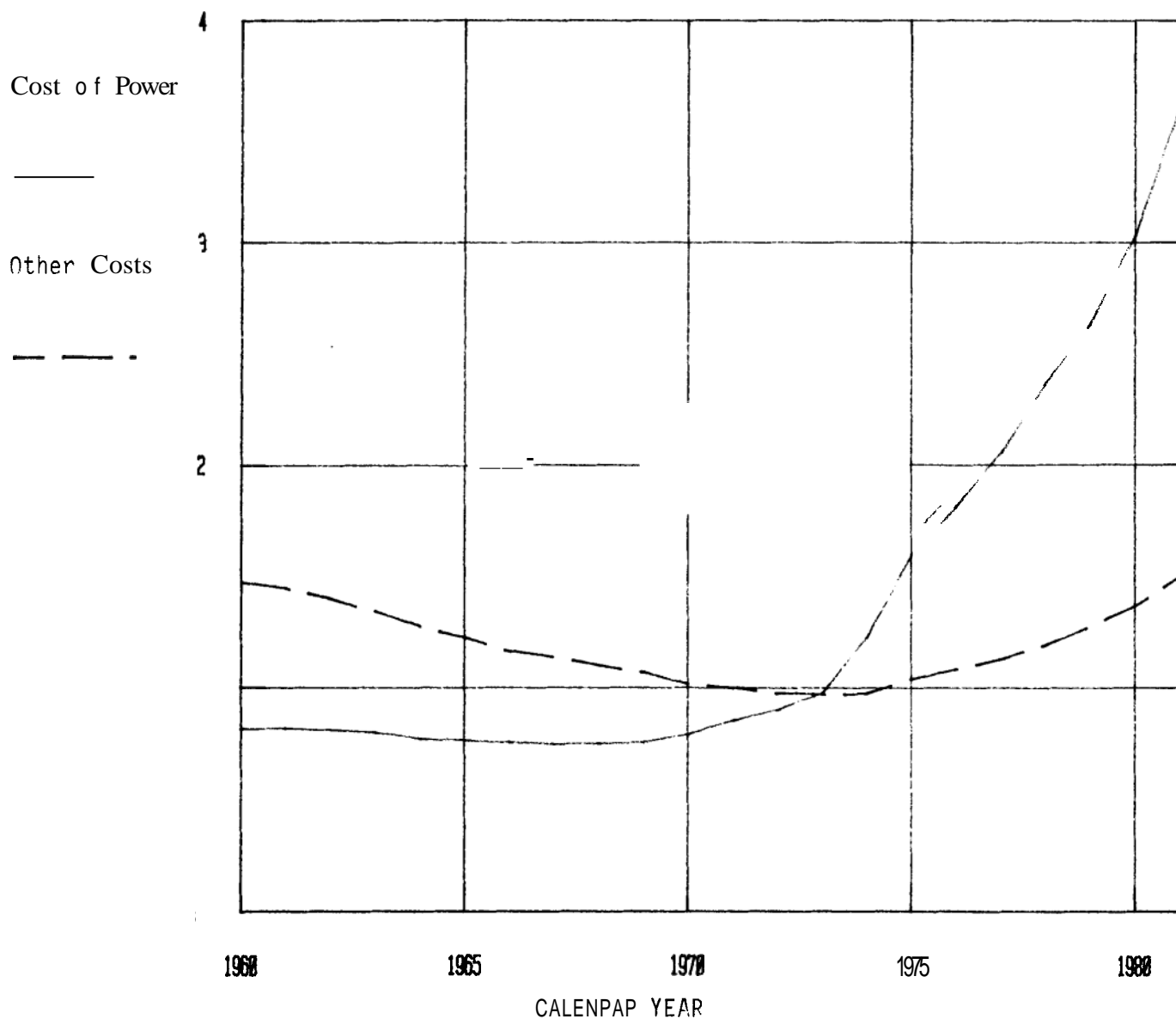


TABLE E-3

AVERAGE POWER AND OTHER COSTS PER kWh SOLD

Year	cost of Power <u>1/</u>	Other Costs <u>2/</u>
1960	0.8176	1.4726
1961	0.819	1.446
1962	0.811	1.400
1963	0.802	1.346
1964	0.773	1.276
1965	0.766	1.224
1966	0.757	1.165
1967	0.750	1.138
1968	0.752	1.100
1969	0.757	1.069
1970	0.793	1.014
1971	0.854	0.999
1972	0.902	0.976
1973	0.974	0.969
1974	1.225	0.974
1975	1.593	1.039
1976	1.813	1.082
1977	2.056	1.129
1978	2.364	1.192
1979	2.631	1.277
1980	3.031	1.369
1981*	3.611	1.501

* Preliminary

1/ Includes power production expenses, transmission expense and cost of purchased power.

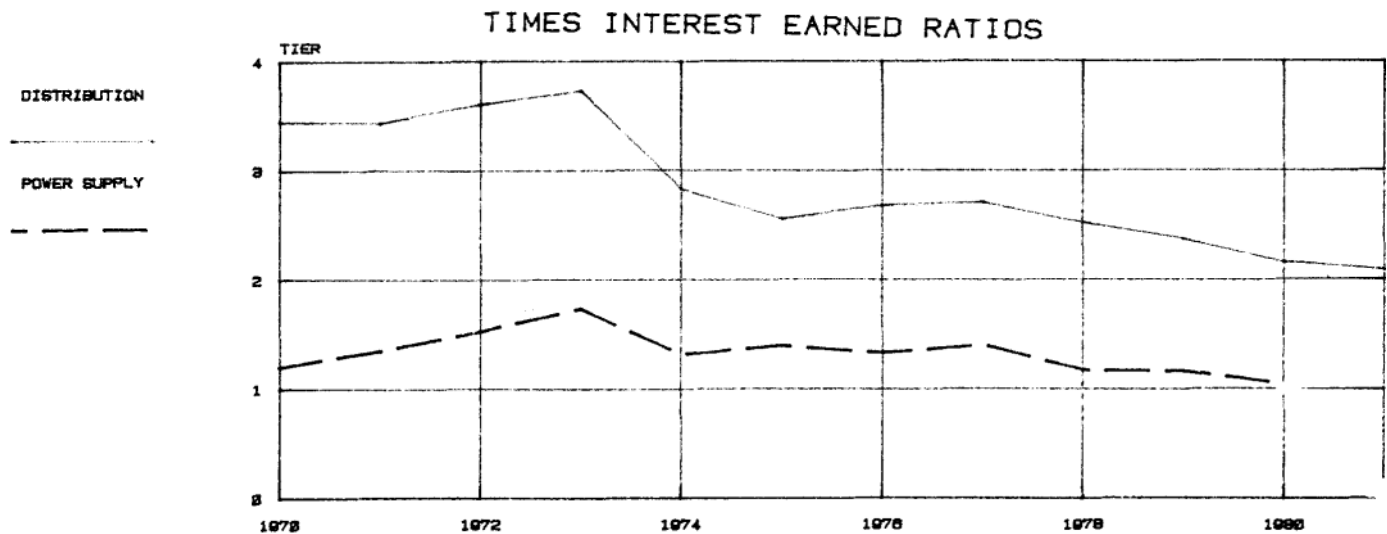
2/ Total revenue from sales of electric energy less cost of power.

Source: REA Bulletin 1-11

The financial ratios of REA electric borrowers have declined substantially since 1974 when costs began increasing rapidly and were not matched by similar rate increases.

Strong financial ratios are important because they affect the cost at which REA borrowers are able to obtain funds from private sources.

CHART E-4 FINANCIAL RATIOS OF REA ELECTRIC BORROWERS



EQUITY AS A PERCENT OF TOTAL ASSETS

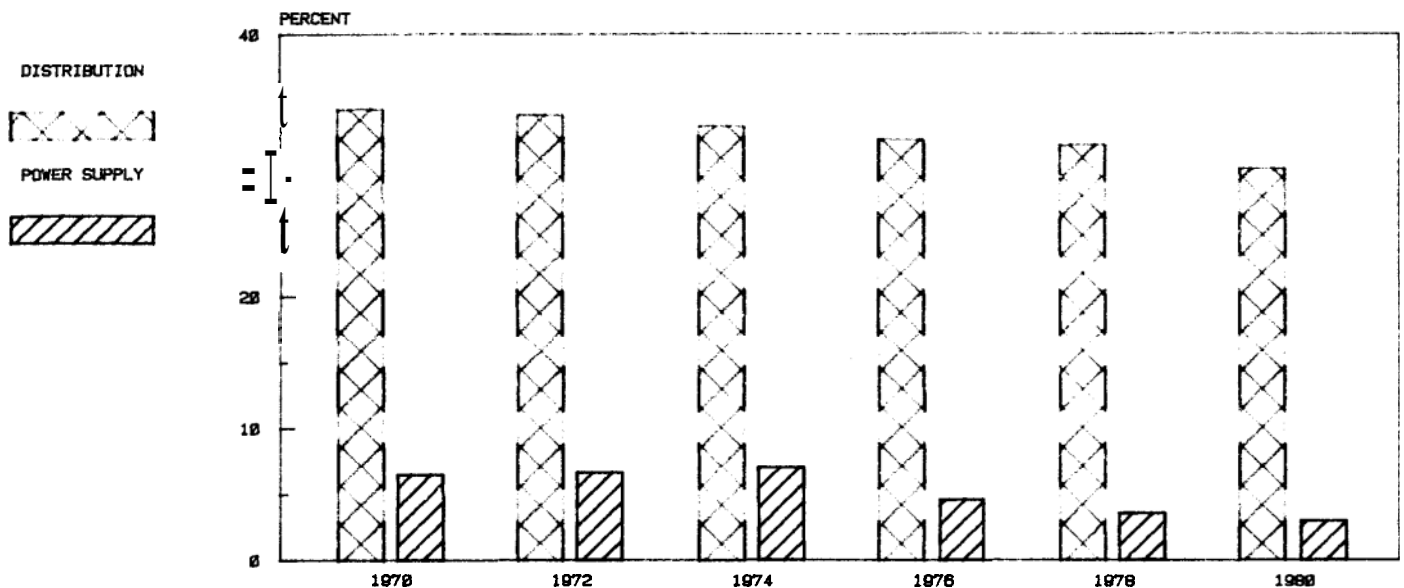


TABLE E-4

FINANCIAL RATIOS OF REA ELECTRIC BORROWERS

<u>Year</u>	<u>Times Interest Earned Ratio (TIER)</u>		<u>Equity as a Percent of Total Assets</u>	
	<u>Distribution Borrowers</u>	<u>Power Supply Borrowers</u>	<u>Distribution Borrowers</u>	<u>Power Supply Borrowers</u>
1970	3.45	1.20	34.3%	6.4%
1971	3.44	1.35	33.7	6.4
1972	3.61	1.53	33.9	6.6
1973	3.73	1.73	33.9	7.0
1974	2.83	1.32	33.0	7.0
1975	2.56	1.39	32.4	5.7
1976	2.68	1.33	32.0	4.5
1977	2.71	1.40	31.9	3.7
1978	2.52	1.17	31.5	3.5
1979	2.37	1.16	30.6	3.6
1980	2.16	1.04	29.8	3.0
1981*	2.09	----	29.8	---

* Preliminary

Most of the revenue collected by REA electric distribution borrowers is used to pay for wholesale power. This component of cost has increased rapidly, and margins as a percent of total revenue have declined.

Interest expense represents only a small percentage of the revenue of distribution borrowers.

CHART E-5

DISPOSITION OF THE REVENUE DOLLAR

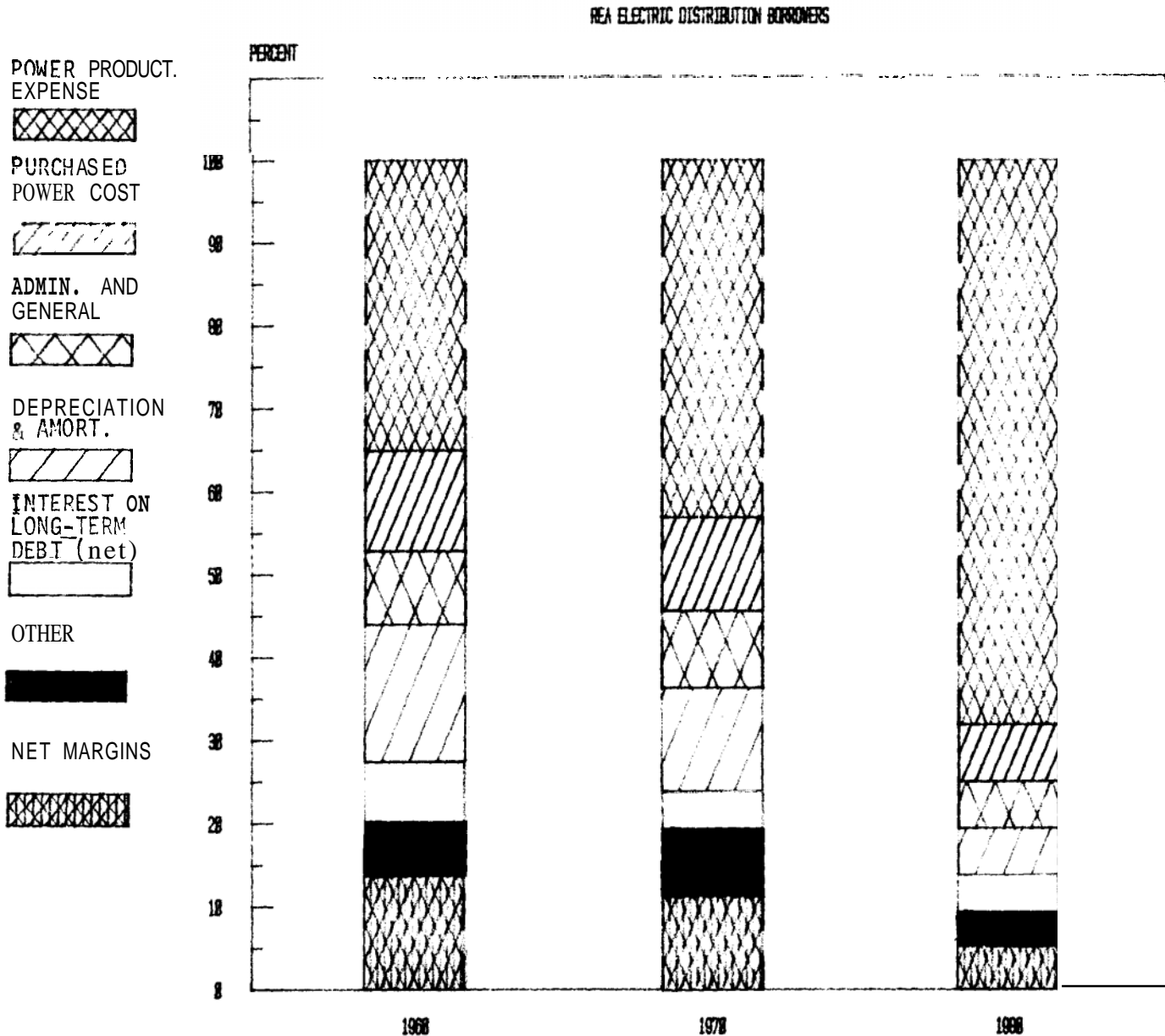


TABLE E-5

DISPOSITION OF THE REVENUE DOLLAR:
 REA ELECTRIC DISTRIBUTION BORROWERS
 (Dollars in Thousands)

	1960		1970		1980	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
<u>Total Operating Revenue</u>	2594,702	100.0%	\$1,252,166	100.0%	\$6,529,782	100.0%
Cost of Power	209,338	35.2	541,172	43.2	4,449,392	68.1
Operation and Maintenance	70,894	11.9	139,040	11.1	453,149	6.9
Administrative and General	53,903	9.1	115,037	9.2	362,969	5.6
Depreciation and Amortization	96,134	16.2	158,751	12.7	364,704	5.6
Interest on Long-Term Debt (Net)	43,279	7.3	56,906	4.5	295,524	4.5
Other	40,108	6.7	101,399	8.1	248,746	3.9
Net Margins	81,046	13.6	139,861	11.2	355,298	5.4

Most of the revenue collected by REA power supply borrowers is used for power production and to purchase wholesale power from other utilities. Increases in power production expense are mainly due to increases in the cost of fuel.

CHART E-6

DISPOSITION OF THE REVENUE DOLLAR

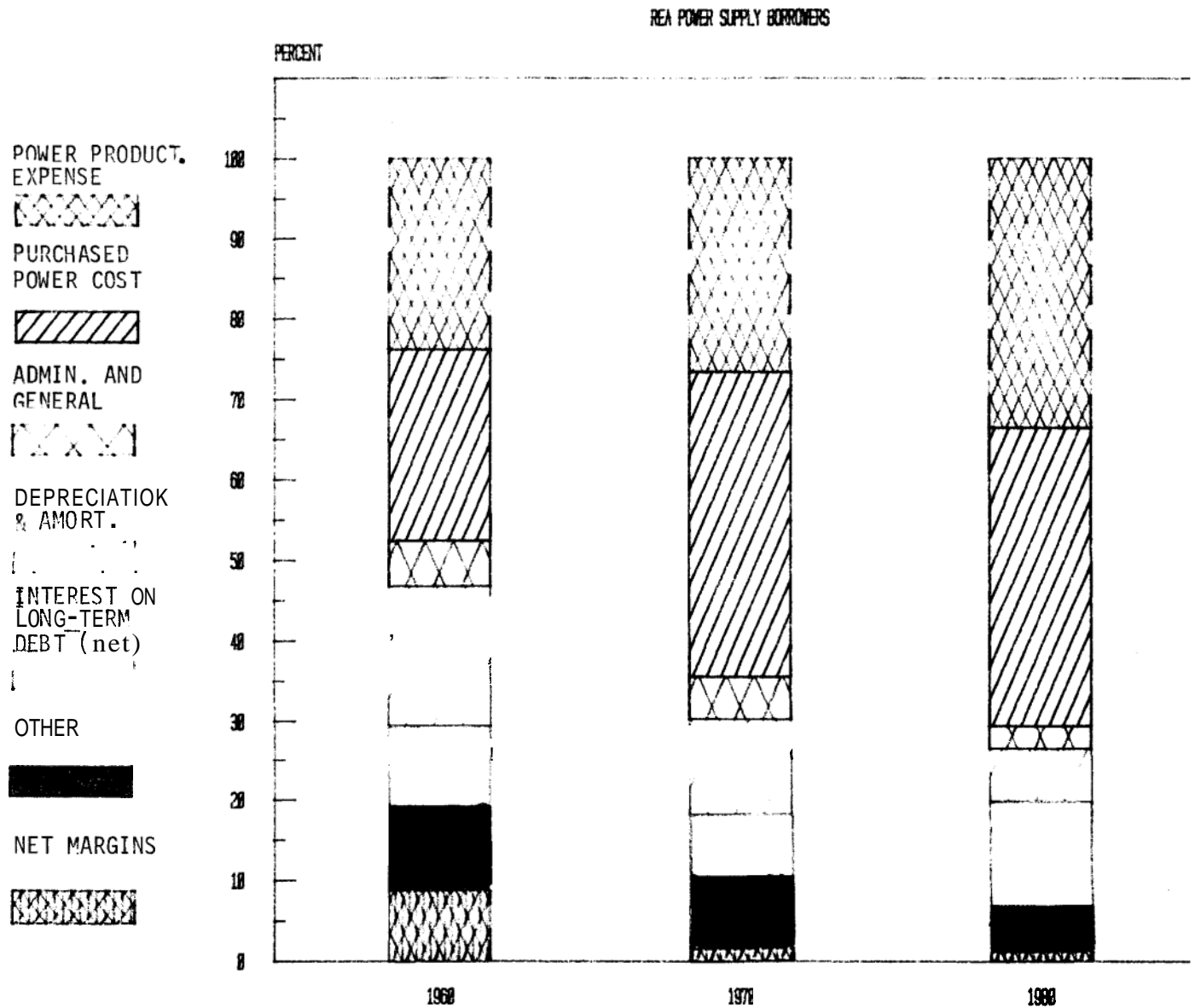


TABLE E-6

DISPOSITION OF THE REVENUE DOLLAR:
REA POWER SUPPLY BORROWERS
(Dollars in Thousands)

	1960		1970		1980	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
<u>Total Operating Revenue</u>	\$69,089	100.0%	\$282,949	100.0%	\$3,177,001	100.0%
Power Production Expense	16,351	23.7	75,626	26.7	1,062,096	33.4
Cost of Purchased Power	16,390	23.7	107,353	37.9	1,175,428	37.0
Administrative and General	4,094	5.9	14,390	5.1	96,210	3.0
Depreciation and Amortization	11,871	17.2	34,280	12.1	223,829	7.0
Interest on Long-Term Debt (Net)	6,940	10.0	21,202	7.5	411,407	12.9
Other	7,276	10.6	25,768	9.2	166,352	5.4
Net Margins	6,167	8.9	4,330	1.5	41,679	1.3

ELECTRIC PROGRAM

Most of the power distributed by rural electric systems is purchased from investor-owned utilities (IOUs) and publicly owned utilities. However, there has been a long-term trend toward REA borrowers generating more of their consumers' power needs.

SOURCES OF WHOLESALE POWER

CHART E-7

REA ELECTRIC BORROWERS

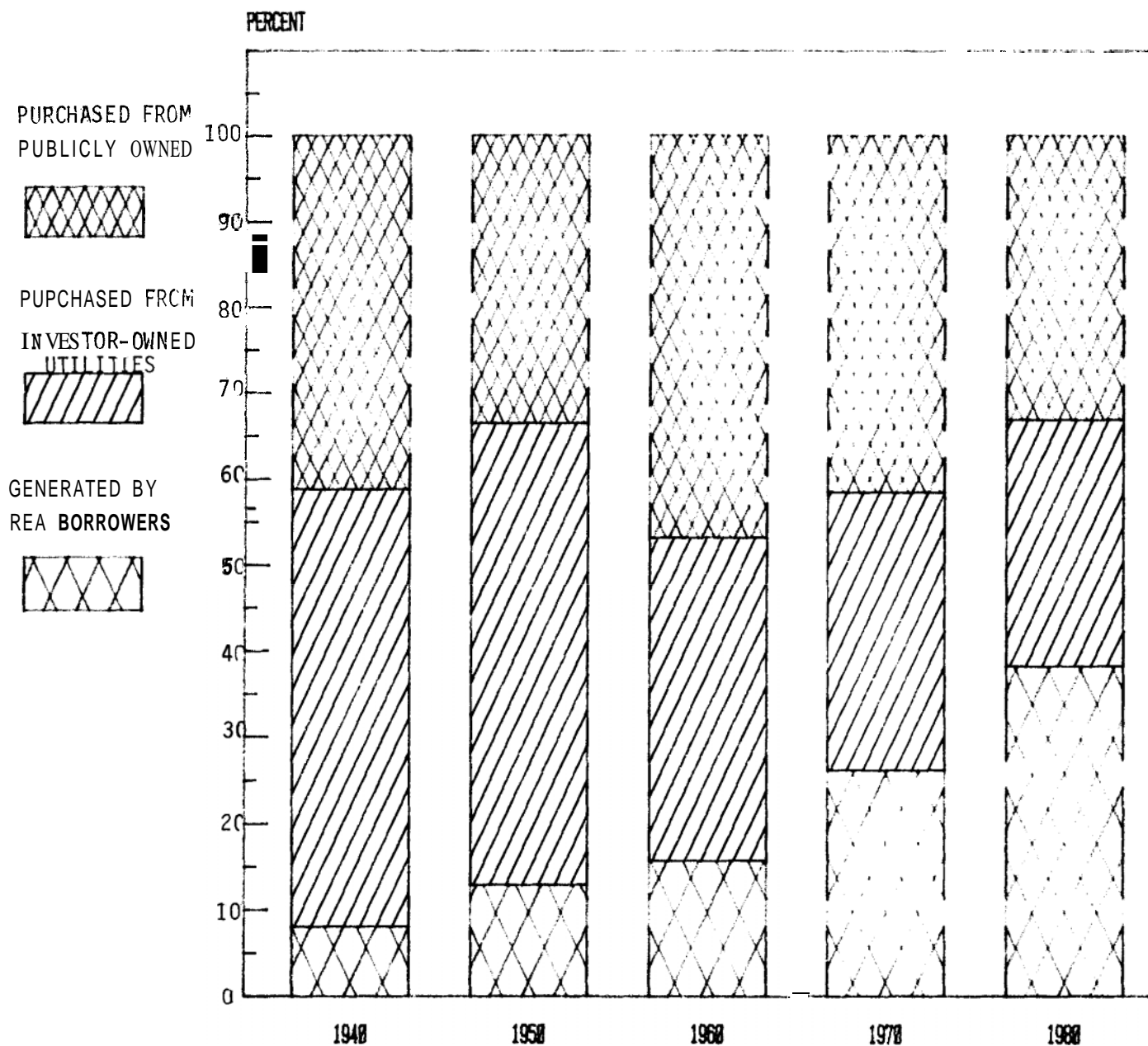


TABLE E-7 Sources of Wholesale Power for REA Electric Borrowers

<u>Year</u>	<u>Generated by REA Borrowers</u>		<u>Purchased from Investor-owned Utilities</u>		<u>Purchased from Investor-owned Utilities</u>	
	<u>mWh</u>	<u>Percent</u>	<u>mWh</u>	<u>Percent</u>	<u>mWh</u>	<u>Percent</u>
1940	34,314	8.1	215,973	51.0	173,354	40.9
1950	972,497	12.8	4,077,706	53.6	2,554,889	33.6
1960	4,568,786	15.6	11,060,332	37.8	13,636,987	46.6
1970	20,637,751	26.3	25,375,456	32.3	32,524,169	41.4
1980	69,536,829	38.2	52,614,204	28.9	59,864,121	32.9

SOURCE: REA Bulletin 111-2

The main trends regarding the type of plant that rural telephone systems are building to serve their subscribers are: (a) buried cable is quickly replacing aerial plant and (b) central office equipment is increasing as a percentage of the total.

CHART E-8

TYPE OF PLANT IN SERVICE

REA TELEPHONE BORROWEES

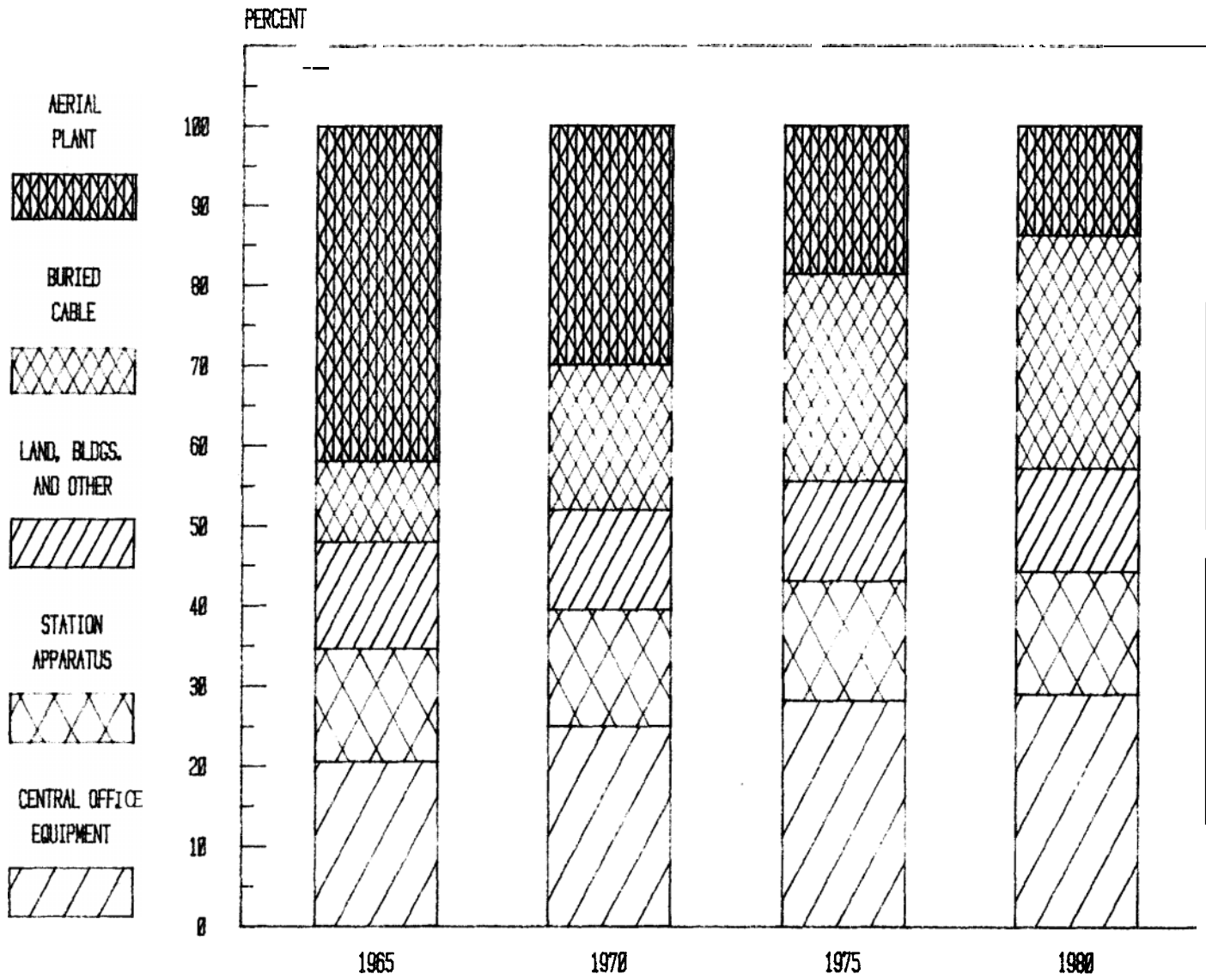


TABLE E-8

TYPE OF PLANT IN SERVICE
REA TELEPHONE BORROWERS
(Dollars in Thousands)

	1965		1970	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Aerial Plant	\$460,431	42.1 %	\$560,411	29.7 %
Buried Cable	109,955	10.0	346,736	18.4
Land, Buildings and Other	142,166	13.0	235,553	12.4
Station Apparatus	156,189	14.3	274,595	14.6
Central Office Equipment	225,894	20.6	469,395	24.9
Total	<u>\$1,094,635</u>	<u>100.0%</u>	<u>\$1,886,690</u>	<u>100.0%</u>

	1975		1980	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Aerial Plant	\$646,195	18.5 %	\$ 942,358	13.7 %
Buried Cable	910,440	26.0	1,990,426	29.0
Land, Buildings and Other	426,826	12.2	900,231	13.1
Station Apparatus	520,577	14.9	1,035,624	15.1
Central Office Equipment	992,808	28.4	2,001,295	29.1
Total	<u>\$3,496,846</u>	<u>100.0%</u>	<u>\$6,869,934</u>	<u>100.0%</u>

An increasing percentage of the revenue collected by REA telephone borrowers has been obtained from toll revenues. Local service revenues have decreased in relative importance.

CHART E-9

SOURCE OF REVENUES

REA TELEPHONE BORROWERS

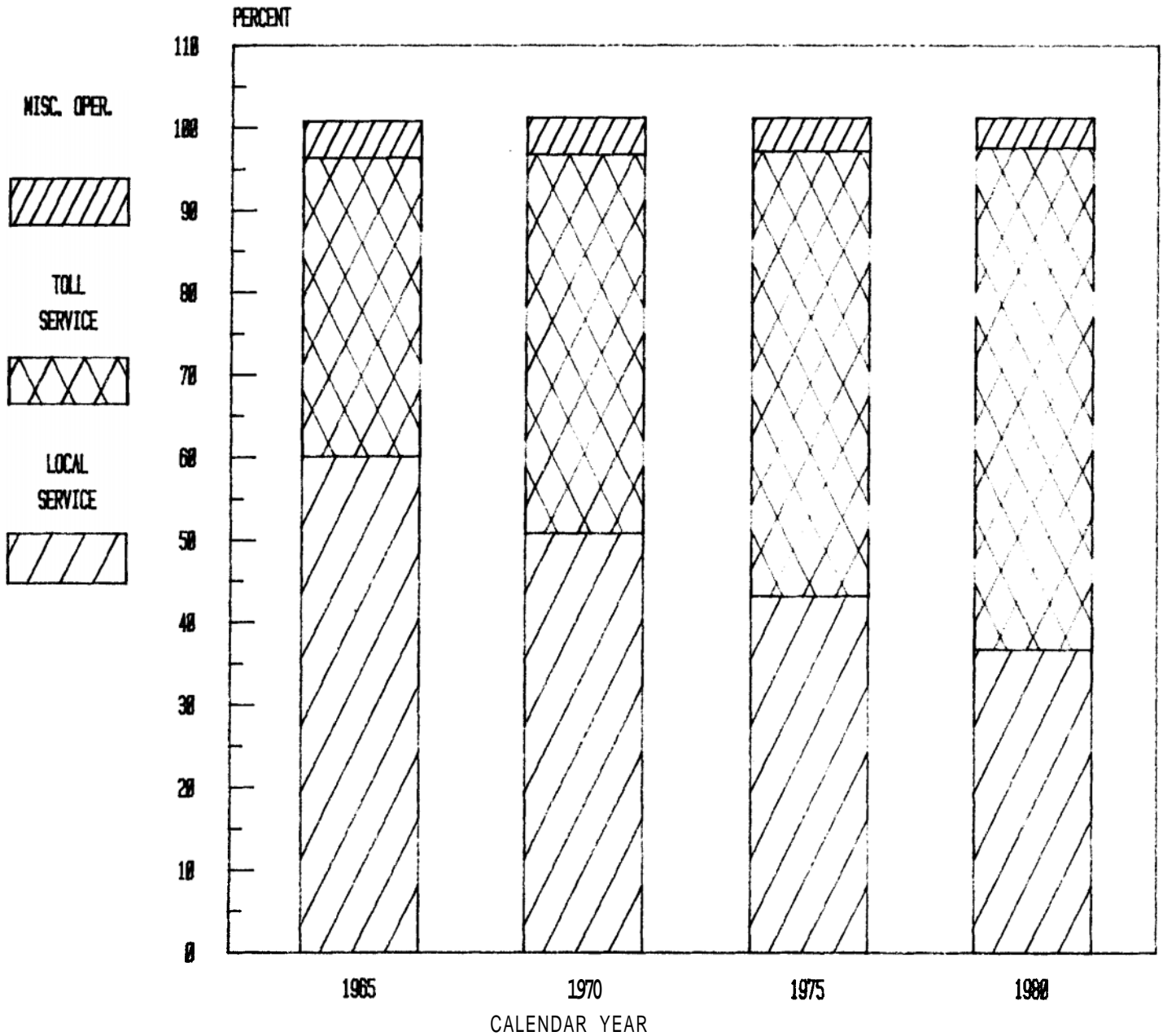


TABLE E-9

SOURCES OF REVENUES , REA TELEPHONE BORROWERS

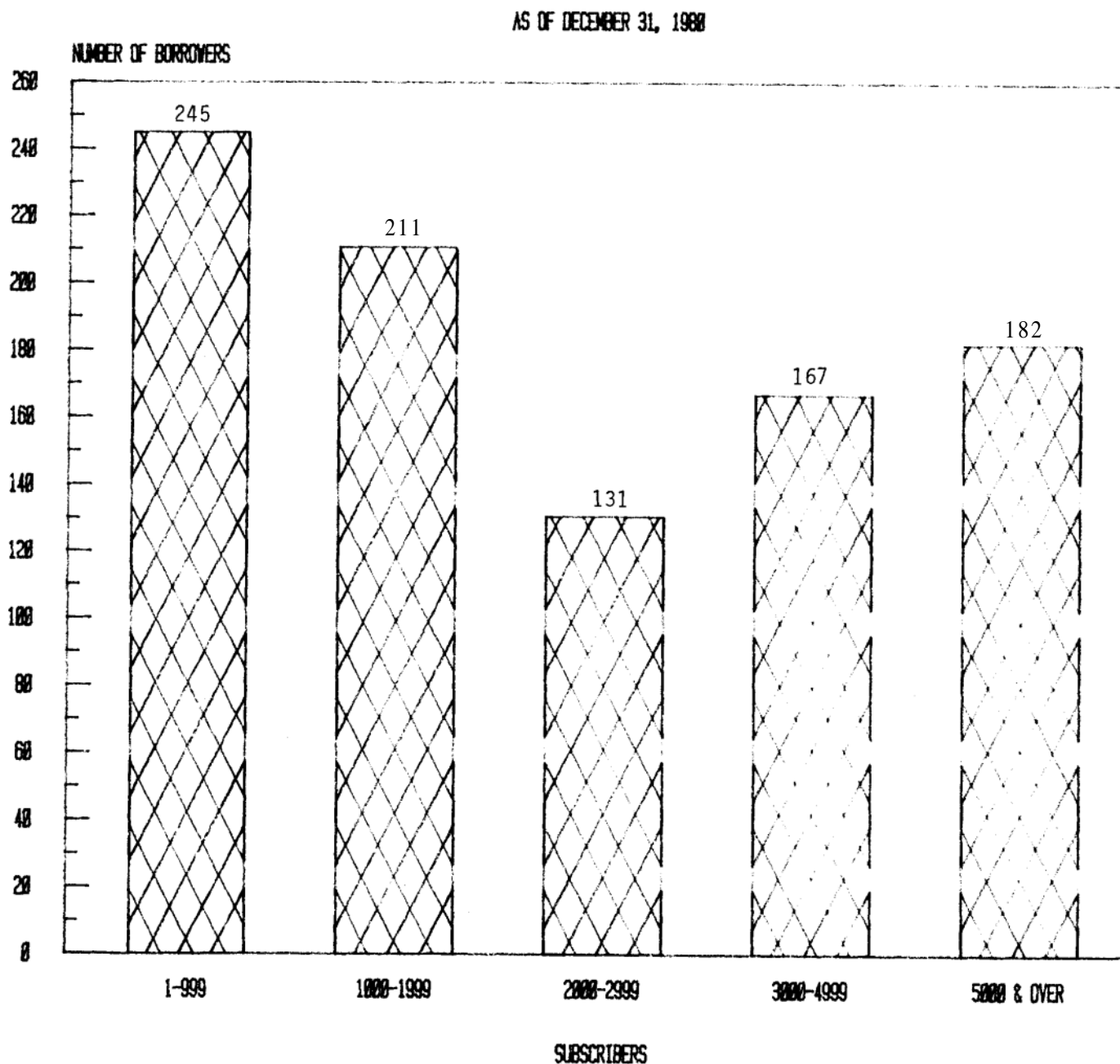
(Dollars in Thousands)

	1965		1970	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Local Service Revenues	\$112,791	60.3%	\$184,485	50.9%
Net Toll Revenues	67,687	36.2	165,848	45.7
Misc. Operating Revenues	7,569	4.0	14,931	4.1
Uncollectible Operating Revenues	1,056	0.5	2,570	0.7
Total Operating Revenues	<u>\$186,991</u>	<u>100.0%</u>	<u>\$362,694</u>	<u>100.0%</u>

	1975		1980	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
Local Service Revenues	\$325,894	43.3%	\$ 648,608	36.9%
Net Toll Revenues	406,649	54.0	1,066,488	60.7
Misc. Operating Revenues	25,928	3.4	54,980	3.1
Uncollectible Operating Revenues	5,371	0.7	12,336	0.7
Total Operating Revenues	<u>\$753,100</u>	<u>100.0%</u>	<u>\$1,757,740</u>	<u>100.0%</u>

Most REA telephone borrowers are quite small businesses, in terms of the number of subscribers they serve. As of December 31, 1980, the average REA telephone borrower served 4,554 subscribers with an average of 5.3 subscribers per route mile.

CHART E-10 SUBSCRIBERS SERVED PER REA TELEPHONE BORROWER



Selected operating ratios of borrowers for 1980 and the four prior years are presented below. The ratios of total operating revenues and net operating income or margin to average plant in service show an increase from 23.8 to 27.0 and from 5.2 to 5.9 respectively, in a comparison of 1976 with 1980. The ratios of maintenance and depreciation expenses have also shown increases in this period. The operating ratio in this five-year period has increased slightly from 88.3 in 1976 to 89.1 in 1980.

Table E-10 Operating Ratios of REA Telephone Borrowers

	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Dollars per subscriber:					
Investment (total telephone plant)	\$1,332.15	\$1,405.32	\$1,488.23	\$1,610.16	\$1,733.35
Plant in service	1,234.48	1,307.75	1,388.59	1,493.92	1,611.77
Depreciated plant in service	943.51	991.0%	1,046.11	1,121.02	1,205.89
Total assets	1,182.01	1,238.21	1,308.44	1,418.39	1,525.88
Percent of average plant in service:					
Total operating revenues	23.8	24.3	25.6	26.7	27.0
Operating expenses and taxes	13.4	13.9	14.8	15.4	15.6
Maintenance expenses	4.4	4.7	5.0	5.4	5.5
Depreciation expenses	5.0	5.0	5.1	5.3	5.4
Net operating income or margin	5.2	5.2	5.5	6.0	5.9
Percent of total operating revenues:					
Total operating deductions and fixed charges (operating ratio)	88.3	88.6	88.4	88.7	89.1
Other income and deductions (net)	0.8	0.7	0.7	1.0	1.4
Net income or margin	12.5	12.1	12.3	13.0	12.3

The major expenses of rural telephone borrowers have been relatively stable as a percent of their total revenue: there have been no dramatic trends among any of the major expense items.

Interest on long-term debt, like other items has been stable--accounting for about ten percent of telephone borrower revenue for the past twenty years.

CHART E-1

DISPOSITION OF THE REVENUE DOLLAR

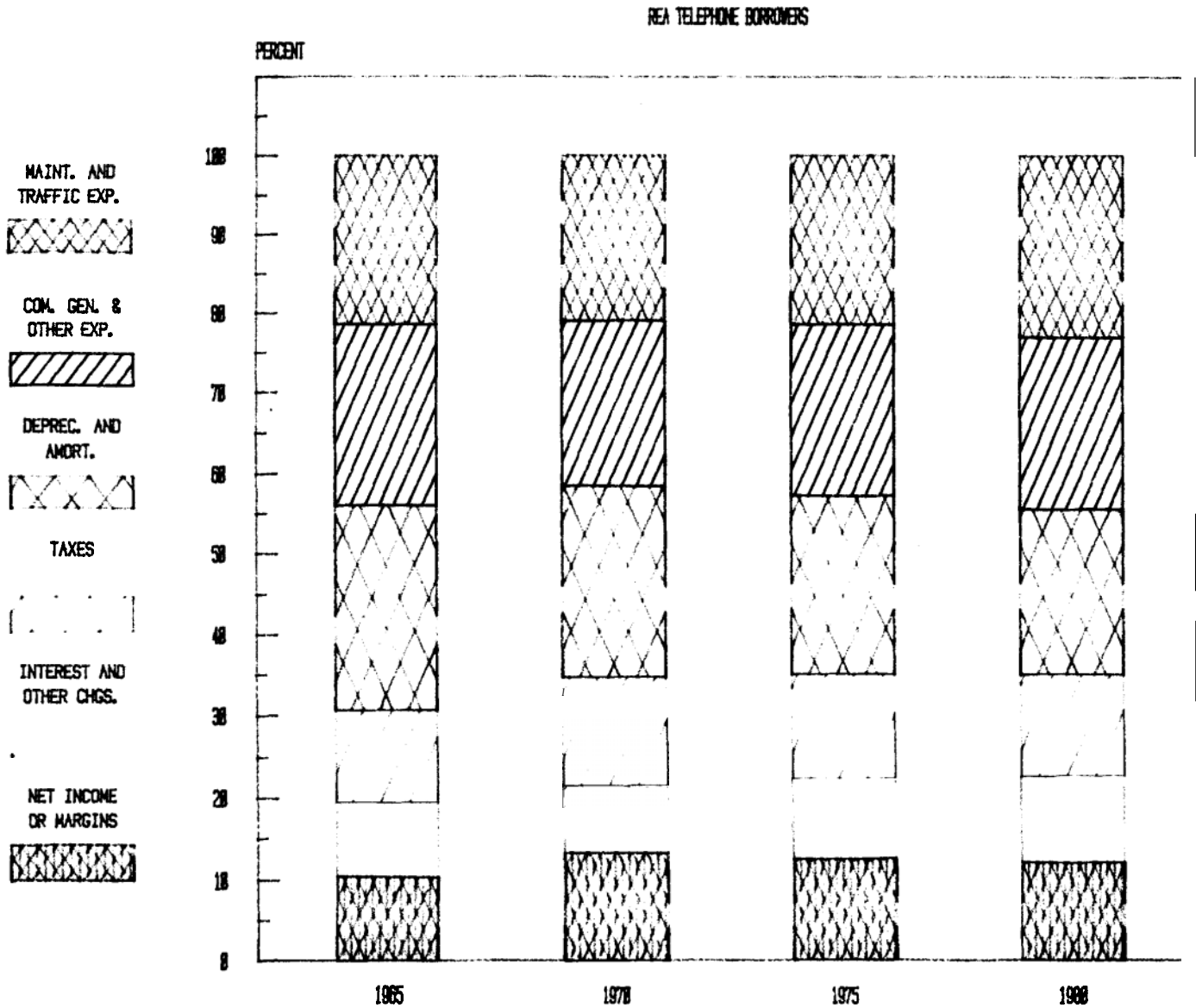


TABLE E-11

DISPOSITION OF THE REVENUE DOLLAR:
REA TELEPHONE BORROWERS
(Dollars in Thousands)

	<u>1965</u>		<u>1970</u>		<u>1975</u>		<u>1980</u>	
	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>	<u>Dollars</u>	<u>Percent</u>
<u>Total Operating Revenue</u>	\$186,991	100.0%	\$362,694	100.0%	\$753,100	100.0%	\$1,757,740	100.0%
Maintenance and Traffic Expense	40,216	21.5	75,823	20.9	162,190	21.5	405,560	23.1
Commercial, General and Other	42,616	22.8	75,667	20.9	162,765	21.6	387,127	22.0
Depreciation and Amortization	47,776	25.5	86,348	23.8	166,709	22.1	361,059	20.5
Taxes	20,839	11.1	49,427	13.6	97,440	12.9	222,568	12.7
Interest on Long-term Debt	17,121	9.2	29,261	8.0	73,930	9.8	174,805	10.0
Other Fixed Charges (Net)	(5)	(0.0)	(370)	(0.1)	(152)	(0.0)	14,660	0.8
Other Income and Deductions (Net)	(1,274)	(0.6)	(2,742)	(0.7)	(5,238)	(0.6)	(24,395)	(1.4)
Net Income or Margin	19,702	10.5	49,280	13.6	95,456	12.7	216,356	12.3

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